Carrie Potter

EASTERN KENTUCKY STATE TEACHERS COLLEGE

RICHMOND, KENTUCKY

CATALOG NUMBER 1945–46

EASTERN KENTUCKY REVIEW

VOL. XXXVI JULY, 1945 No. 1

Published bi-monthly by the Eastern Kentucky State Teachers College and entered at the post office at Richmond, Kentucky, as second-class matter November 20, 1906.

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A STANDARD COLLEGE

Approved by

Kentucky Association of Colleges and Secondary Schools

American Association of Teachers Colleges

Southern Association of Colleges and Secondary Schools

American Association of University Women

and

American Council on Education

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COLLEGE CALENDAR 1945-46

FALL QUARTER

September 20	Thursday	Admission and classification of
21	Friday	freshmen*
22	Saturday	
September 24	Monday	Regisration of upper-class students
September 25	Tuesday	Classes begin
September 26	Wednesday	Last day to register for full load
September 28	Friday	Last day to register for credit
December 13	Thursday	Quarter ends

WINTER QUARTER

January 2	Wednesday	Registration
January 3	Thursday	Classes begin
January 4	Friday	Last day to register for full load
January 8	Tuesday	Last day to register for credit
March 16	Saturday	Quarter ends

SPRING QUARTER

March 18	Monday	Registration
March 19	Tuesday	Classes begin
March 20	Wednesday	Last day to register for full load
March 22	Friday	Last day to register for credit
May 26	Sunday	Baccalaureate service
May 29	Wednesday	Commencement
May 31	Friday	Quarter ends

SUMMER QUARTER 1946

FIRST TERM

June 5	Wednesday	Registration
July 13	Saturday	Term closes

SECOND TERM

July 15	Monday	Registration
August 21	Wednesday	Term closes

* Freshmen are expected to be present at 8:30 a. m., Thursday, September 20, and remain for the entire period set aside for admission and classification of first-year students.

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** On leave of absence, military service.

* Retired June 30, 1942.

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VIRGINIA F. STORY, B. S., M. A. — **Assistant Professor of Elementary Education; Supervising Teacher, Elementary Training School**

Diploma, Eastern Kentucky State Teachers College; B. S., M. A., George Peabody College for Teachers.

BROWN E. TELFORD, B. S. — **Assistant Professor of Music; Teacher of Piano and Organ**

Diploma, Greenbrier College for Women; student, Cincinnati Conservatory of Music, New York School of Music and Arts, New England Conservatory of Music; B. S., Columbia University.

LONA LEE TURNER, A. B., M. A. — **Assistant Professor of Mathematics**

A. B., Eastern Kentucky State Teachers College; M. A., University of Michigan; additional graduate work, University of Chicago.

** On leave of absence, military service.

MRS. JULIAN TYNG, B. S., M. A. — **Associate Professor of Education**

Diploma, Eastern Kentucky State Normal School and Teachers College; B. S., George Peabody College for Teachers; graduate work, George Peabody College for Teachers; M. A., Teachers College, Columbia University.

JAMES E. VAN PEURSEM, A. B., B. Mus., M. A. — **Professor of Music**

A. B., Morningside College; B. Mus., Oberlin College; M. A., New York University.

SAMUEL WALKER, A. B., A. M., Ph. D. — **Assistant Professor of History; Supervising Teacher, Model High School**

A. B., Maryville College; A. M., Ph. D., University of Kentucky.

RALPH W. WHALIN, B. S., M. Ed. — **Associate Professor of Industrial Arts**

B. S., Western Kentucky State Teachers College; M. Ed., University of Missouri.

ELIZABETH WILSON, B. S., M. A. — **Assistant Professor of Elementary Education; Supervising Teacher, Elementary Training School**

Diploma, Martin College; B. S., M. A., George Peabody College for Teachers.

GERMANIA J. WINGO, B. S., M. A. — **Assistant Professor of Elementary Education; Supervising Teacher, Elementary Training School**

Diploma, Virginia State Normal School; diploma in critic work, Columbia University; B. S., M. A., Teachers College, Columbia University; additional graduate work, University of Colorado.

LIBRARY STAFF

MARY FLOYD, A. B., M. A., B. S. in Library Service — **Librarian**

A. B., Eastern Kentucky State Teachers College; M. A., Teachers College, Columbia University; graduate student, University of Chicago; B. S. in Library Service, Columbia University.

MRS. ELIZABETH S. GREER, A. B., B. S. in Library Science — **Assistant Librarian in Charge of Cataloging**

A. B., Georgetown College; B. S. in Library Science, George Peabody College for Teachers.

MRS. GUY WHITEHEAD, B. S., B. S. in Library Science — **Assistant Librarian in Charge of Reference Work**

B. S., B. S. in Library Science, George Peabody College for Teachers.

ADMINISTRATIVE STAFF

MRS. KATHRYN McNUTT ALLEN, Assistant to the Business Agent

W. A. AULT, Superintendent of Buildings and Grounds

FRED BALLOU, Book Store Manager

**SAM BECKLEY, A. B., Assistant Director of Extension

MRS. ETHEL BLANTON, Housekeeper

LOUISE BROADDUS, A. B., Recorder, Registrar's Office

G. M. BROCK, Business Agent

MRS. KATHERINE CHENAULT, A. B., Hostess,
Student Union Building

LOIS COLLEY, Assistant to the Alumni Secretary

ELVA COMBS, College Nurse

BEATRICE GOINS, B. S., Secretary to the Director of Extension

MRS. BESSIE H. GRIGGS, Information Clerk

MRS. J. W. HILL, Assistant Director of the Cafeteria

MRS. MAUDE McLAUGHLIN HILL, A. B., Cashier and
Accounts Clerk

MRS. C. A. KEITH, Housemother, Men's Dormitories

E. P. McCONNELL, Bookkeeper

EDITH L. McILVAINE, Supervisor of the Cafeteria

SUZANNE MALLOT, Assistant Secretary to the Dean of Women

KATHERINE MORGAN, Secretary to the President and
Secretary to Board of Regents

MRS. HELEN W. PERRY, Assistant to the Director of Personnel

CARRIE POTTS, Secretary to the Registrar

MAYE M. WALTZ, Secretary to the Dean

EUNICE WINGO, Secretary to the Dean of Women

** On leave of absence, military service.

FACULTY ORGANIZATION

CHAIRMEN OF DIVISIONS OF INSTRUCTION

Applied Arts and Sciences ..... W. J. Moore, Chairman
- Agriculture
- Commerce
- Home Economics
- Industrial Arts
- Library Science

Fine Arts ..... Frederic P. Giles, Chairman
- Art
- Music

Biological and Physical Sciences ..... Arnim Dean Hummel, Chairman
- Biology
- Chemistry
- General Science
- Geology
- Physics

Education ..... D. Thomas Ferrell, Chairman
- Elementary Education
- Educational Psychology
- Public School Administration
- Secondary Education
- Training Schools

Health and Physical Education ..... Charles T. Hughes, Chairman
- Health
- Physical Education

Languages ..... Roy B. Clark, Chairman
- English
- French
- German
- Latin
- Spanish

Mathematics ..... Smith Park, Chairman

Social Sciences ..... Charles A. Keith, Chairman
- Geography
- Government
- History
- Sociology

COMMITTEES

ADVISORY COUNCIL ON STUDENT PERSONNEL

Moore, Ballou, Brock, Case, Chenault, Cuff, Edwards, Floyd, Keith, Mattox

ADVISORY COUNCIL ON PUBLICATIONS

Moore, Adams, Clark, Dorris, Engle, Floyd, Gill

ALUMNI

Adams, Allen, Ashmore, Beckley, Broaddus, Case, Chenault, Coates, Evans, Fitz, Floyd, Goins, Hill, Lingenfelser, McKinney, Moore, Neale, Regenstein, Richards, Rigby, Slade, Story, Turner, Tyng

ATHLETIC

Park, Coates, Grise, Hughes, Hummel, LaFuze, Rankin

CREDITS AND CREDENTIALS

Mattox, Carter, Clark, Cuff, Gumbert, Herndon, Park

ENTRANCE EXAMINATIONS

Mattox, Barnhill, Burns, Gill, McKinney, Turner, Walker

EVALUATION

Cuff, Adams, Beckley, Coates, Cox, Ford, Herndon, Jenkins, Keene, Lee, Turner, and four students

EXTENSION

Carter, Adams, Dorris, Engle, Mattox

FINE ARTS AND ENTERTAINMENT

Giles, Buchanan, Campbell, Kennamer, McPherson, Murbach, Seevers, Simpson, Stone, Telford, Tyng, Van Peursem, and four students

GRADUATE INSTRUCTION

Moore, Barnhill, Clark, Coates, Ferrell, Giles, Hummel, Keith, Kennamer, Mattox, Park, Schnieb

GRADUATION

Kennamer, Case, Hummel, Jenkins, Keith, Mattox

LIBRARY

Floyd, Allen, Dorris, Giles, Herndon, Hood, Jenkins, Keene, LaFuze, Lee, McKinney, Moore, Park, Van Peursem, two juniors, and two seniors

PERMANENT PLANNING

Edwards, Burrier, Carter, Clark, Cox, Deniston, Ferrell, Hughes, Giles, Hummel, Keith, Kennamer, LaFuze, Mattox, Moore, Murbach, Park, Van Peursem, and four students

PUBLIC RELATIONS

Mattox, Allen, Burns, Coates, Deniston, Ford, Keene, Kennamer, Lee, Seevers, Slater, Whalin, and four students

RURAL EDUCATION

Ferrell, Case, Dorris, Edwards, Engle, Evans, Hansen, Lingenfelser, Regenstein, Slade, Story, Tyng, Wilson, Wingo, and four students

RULES

Park, Carter, Case, Edwards, Fowler, Keith, Mattox

SOCIAL

Case, Burrier, Burns, Cox, Cuff, Fowler, Herndon, Hummel, Keith, Lee, Sorbet, Tyng, and eight students

STUDENT GUIDANCE AND PERSONNEL

Cuff, Engle, Ford, Giles, Grise, Herndon, Kennamer, LaFuze, McPherson

STUDENT LOANS, SCHOLARSHIPS, AND FELLOWSHIPS

Cuff, Brock, Case, Cox, Keith, Rankin, Schnieb

STUDENT UNION

Chenault, Ballou, Case, McIlvaine, O'Donnell, and five students

STUDENT WELFARE

O'Donnell, Ford, Hood, Moore, Park, Whalin, Whitehead

TRAINING SCHOOL

Edwards, Allen, Alvis, Evans, Hansen, Houtchens, LaFuze, Lingenfelser, Rush, Slade, Story, and four students

VETERANS

Mattox, Cox, Ferrell, Grise, Keene

VISUAL EDUCATION

Gumbert, Dorris, Fitz, Floyd, LaFuze, Mattox, Pugh, Rumbold, Samuels, Tyng

The President and Dean are ex officio members of all standing committees.

GENERAL INFORMATION

ORGANIZATION

The college is organized on the quarter plan. The school year is divided into four quarters of approximately twelve weeks each. The regular academic year is divided into three quarters; namely, Fall, Winter, Spring. The fourth quarter of the school year is devoted to the summer session. The Summer Quarter is an integral part of the school year and is organized to make it possible for students to complete the full four-year college course in three calendar years, for teachers who desire to secure additional professional training, and for other students who find it convenient to attend the summer session.

AIMS OF THE COLLEGE

A. The primary aim of Eastern Kentucky State Teachers College is to prepare teachers for the schools of Kentucky. In accomplishing this aim the college should develop in the prospective teacher:

   1. As a general basis for all good teaching, an understanding of what is going on in the world and what has gone on in the past and the ability to adapt such understanding to situations that may arise for him as a member of society.

   2. A number of more or less specialized understandings such as:

      a. An understanding of the function of education in a democratic society. It may be assumed that the success of a democratic society is dependent upon a wide dissemination of such education as will enable its citizens to meet situations and solve problems that may arise in a changing society.

      b. An understanding of the relation of the individual to society in a democratic society. It may be assumed that the integrity of character of the individual and the inseparability of freedom and responsibility, of rights and duties, constitute the very foundation of democracy.

      c. An understanding of child behavior at the different age periods.

      d. An understanding of the social forces at work upon the child.

e. An understanding of child health, both physical and mental, in the learning process.

f. An understanding of the influence of the physical and mental health of the teacher upon the child.

g. An understanding of the importance of the teacher's patterns of conduct.

h. An understanding of the function of the arts in the education of the teacher. It should be recognized that the arts have power to release emotional tensions, and thereby promote health, and to develop esthetic insights and a sensitiveness to beauty and ugliness.

i. An understanding of the function of the sciences in the education of the teacher. Such understanding should be of great service in helping him make use of the resources of the community and developing open-mindedness and an inclination to distinguish between belief and proof.

j. An understanding of the importance of the social development of the teacher. This would include such attitudes and abilities as willingness and ability to cooperate with one's colleagues, a desire for wholesome recreation, and the willingness and ability to make the use of good English habitual.

k. An understanding of the importance of the sensitivity and adaptability of the teacher to the possibilities of the community.

l. An understanding of the various learning processes and the corresponding teaching techniques.

m. An adequate understanding of the particular area of experience or field of subject matter which the student has selected to teach.

n. An understanding of what constitutes good teaching.

B. Another aim is to furnish guidance and to provide instruction in vocations other than teaching:

1. The selection of the best students for prospective teachers:

a. By encouraging such high school graduates to come to Eastern as have been recommended by superintendents and principals.

b. By selecting from the students enrolled only such as possess or may develop good qualities for teachers.

2. The furnishing of counsel and guidance for vocations to the students who do not expect to teach or are not suited to teaching.

3. The providing of instruction for those students who are not preparing to become teachers.
   a. Basic education approximately the same as for teachers.
   b. Preprofessional education for medicine, law, engineering, etc.
   c. Vocational studies such as may be pursued in the fields of agriculture, commerce, and the practical arts.
4. The providing of vocational and general education for adults.

C. A third aim of Eastern is to make a real contribution to the life of the community or area which the college serves:

1. By preparing only worthy teachers.
2. By conducting extension courses (either on the campus or off), or study centers when requested.
3. By furnishing expert advice or other assistance at teachers' conferences.
4. By supplying speakers for high school commencements and other community activities.
5. By keeping a personal interest in the graduates and encouraging professional and intellectual growth.
6. By keeping in close touch with the needs of the teachers in the field and by being ready to give assistance to the teachers.
7. By holding on the college campus conferences for the further development of leaders.
8. By supplying to the teachers of the community which the college serves library materials and other materials such as visual aids.

LOCATION

Eastern Kentucky State Teachers College is in Richmond, Madison County, Kentucky, on the main line of the L. & N. Railway, 112 miles south of Cincinnati, Ohio; on the Dixie Highway (U. S. No. 25), 26 miles southeast of Lexington; on U. S. Highway No. 227; and on Kentucky Highway No. 52.

Located in the famous Bluegrass Region of Kentucky, the college is surrounded by places of historic and scenic interest. These places of interest include: Boonesboro (12 miles), Harrodsburg and Shakertown (45 miles), Herrington Lake (35 miles), Cumberland Falls (100 miles), State Capitol at Frankfort (55 miles), Berea College (14 miles), Kentucky Natural Bridge State Park (63 miles), My Old Kentucky Home (85 miles), Louisville (100 miles),

Lincoln Memorial (110 miles), the foothills of the Cumberland Mountains (20 miles), and the famous stock farms in the heart of the Bluegrass Region (26 miles).

GROWTH

The year the State of Massachusetts established normal schools for the preparation of teachers, Kentucky established a public school system. The first Superintendent of Public Instruction of Kentucky in his initial report requested the General Assembly for "the founding of one or more normal schools for the purpose of training the sons of the soil for teaching." Fifteen different state superintendents appeared before more than thirty sessions of the Legislature making the same plea for a school for teachers. Sixty-eight years passed before the General Assembly of 1906 heeded this request. The late J. C. W. Beckham, Governor of the State at that time, signed the bill establishing the Eastern Kentucky State Normal School on March 21, 1906, and shortly after this a commission selected the campus of old Central University at Richmond as the site of the new school.

The curriculum has been improved from the short review and certificate courses of the first years to a four-year curriculum leading to the bachelor of arts or the bachelor of science degree, and a one-year graduate curriculum leading to the master of arts degree in education. Requirements for college entrance have been raised from eighth grade graduation or possession of any kind of certificate to graduation from an accredited high school.

The college has been directed by five presidents: Ruric Nevel Roark, 1906-1909; John Grant Crabbe, 1910-1916; Thomas Jackson Coates, 1916-1928; Herman Lee Donovan, 1928-1941; W. F. O'Donnell, 1941—.

THE CAMPUS

The college plant, valued at approximately $3,250,000, includes eighteen beautiful and well-equipped buildings located on more than 223 acres of bluegrass land. The buildings are as follows:

University Building

The University Building, a handsome, four-story brick structure, was constructed in 1874 and, as a result of excellent repair work, still stands, serving as well as when it was built more than seventy years ago. It stands as a landmark on the campus, housing a part of the high school division of the Eastern Teachers College Training School.

Roark Building

Roark Building has recently been completely repaired and redecorated. It provides excellent housing facilities for the departments of mathematics, chemistry, biology, physics, geography, and geology. It was named in honor of Dr. Ruric Nevel Roark, Eastern's first president.

Sullivan Hall

Sullivan Hall is a dormitory for women and accommodates approximately 158 women students. It has been kept in good repair throughout the years and is a comfortable and convenient home for the girls who choose to live there.

Power Plant

The power plant serves as a central heating unit for all the buildings on the campus. It provides a uniform supply of heat for all parts of the physical plant.

President's Home

The substantial two-story brick residence which today serves as the president's home was constructed in 1889 as a residence for the Chancellor of Central University but did not become the property of the college until 1912. It has recently been redecorated and is in an excellent state of repair.

Cammack Building

The James W. Cammack Building was constructed in 1918 and named for a man who was appointed to the first Board of Regents for the college in 1906 and who remained on the Board as an efficient and faithful servant until his death in 1939. The building is

designed and used entirely for the elementary grades of the college training school.

Memorial Hall Annex

Memorial Hall Annex was built in 1920. It has recently been remodeled and now provides convenient dormitory accommodations for 60 men.

Burnam Hall

The first section of Burnam Hall, a dormitory for women, was completed in 1920. An addition to this building was constructed in 1926 and still another section was built in 1940. The entire structure provides beautiful, comfortable living quarters for 370 women. It is fireproof. Most of the rooms are arranged in suites of two with a connecting bath. A few rooms have private baths. Prospective students are invited to inspect rooms in either Burnam Hall or Sullivan Hall at their convenience. These buildings are open practically every day in the year.

Crabbe Library

In 1922 the original section of the John Grant Crabbe Library was built. The building was enlarged to its present size in 1935. It houses over 60,000 volumes, 4,000 of which are in a special collection of Kentuckiana, and several hundred periodicals. The John Wilson Townsend Collection of Kentuckiana is one of the most extensive of its kind in existence. The library was named in honor of Eastern's second president, John Grant Crabbe, who served the institution from 1909 to 1916.

Stateland Farm

New Stateland Farm, containing 148.63 acres, was purchased by the college in 1923. This increased the tract of land owned by the college to 188.89 acres. As a result of the purchase of three additional tracts of adjoining land, New Stateland Farm now includes 182.88 acres and the total college-owned acreage is now 223.8. The farm is used as a laboratory by the department of agriculture. A large portion of the vegetables, fruits, and dairy products from the farm are used in the college cafeteria. The farm is the home of one of the finest purebred Holstein dairy herds in the country. New Stateland Hall is located on the farm and is used as a residence by the farm manager and as a men's dormitory.

Coates Administration Building

The Thomas Jackson Coates Administration Building was constructed in 1928 and named in honor of Eastern's third president. The offices of the President, Dean, Registrar, Business Agent,

Director of Extension, and some of the department heads are located in this building.

Rural Demonstration School

The Rural Demonstration School was built in 1929. It serves as a laboratory in which students who plan to teach in the one-room rural schools of the State may get practical experience.

Hiram Brock Auditorium

The Hiram Brock Auditorium adjoins the Administration Building and might be considered a part of it. It was built in 1930 and has a seating capacity of 2,000. The auditorium has a stage 40 feet by 30 feet, equipped with a large number of curtains and drops, a modern movie projection room, and a Hammond electric organ. The auditorium building also contains ten studios, dressing rooms, and three classrooms.

Weaver Health Building

The Weaver Health Building, constructed in 1931, is named for the late Charles F. Weaver of Ashland, Kentucky, who served on the Board of Regents at Eastern from 1920 to 1932. It is one of the largest and best equipped buildings on the campus. In it there are two gymnasiums, one 110 feet by 90 feet and one 74 feet by 40 feet; a large variety of physical education apparatus; an official-size tile swimming pool, equipped with machinery for heating, filtering, and purifying all water that enters the pool; more than 1,200 steel lockers for the use of the students; offices of the college physician and members of the physical education staff; several classrooms; ROTC headquarters; and the bacteriology laboratory.

Hanger Stadium

Hanger Stadium was built in 1936. The college received this valuable addition to the plant as a gift from students, faculty, and friends of the college, supplemented by a PWA grant. This concrete, steel, and tile structure has dormitory accommodations for thirty men students, offices for coaches, dressing and equipment rooms, and showers. The seating capacity is 5,000.

Beckham Hall, McCreary Hall, Miller Hall

The new dormitory for men is, strictly speaking, three separate buildings: McCreary Hall, Miller Hall, and Beckman Hall. Each section provides the very finest dormitory accommodations for 48 men. Total capacity of the three wings is 144. The rooms are arranged in suites of four with one adjoining bath. For each pair of such sections, one above the other, there is a private outside entrance. There are no halls except those necessary to connect each group of four rooms with the outside entrance and the

bath. This dormitory was completed in 1939. Prospective students are urged to inspect the building at their convenience. It is open every day in the week, including Sunday. The new dormitory and the stadium and Memorial Hall Annex, already referred to, provide accommodations for 234 men. Beckham Hall is named for the late J. C. W. Beckham, who was governor of Kentucky when Eastern Teachers College was founded. McCreary Hall is named for James B. McCreary, a Richmond citizen, who twice served the State as Chief Executive. Miller Hall is named for Robert W. Miller, a Madison Countian, who introduced in the lower house of the General Assembly a bill establishing Eastern.

Fitzpatrick Arts Building

The Fitzpatrick Arts Building was constructed in 1939 and houses three departments of the college; industrial arts, home economics, and art. Modern machinery and the latest teaching equipment are available to students taking work in any of the departments housed in this building. It is named for the Honorable H. D. Fitzpatrick who was a member of the Board of Regents of the college.

Johnson Student Union Building

Eastern's newest and finest building is the Keen Johnson Student Union Building. This building contains club rooms for students, recreation halls, the Little Theater, student post office, bookstore, soda fountain and grill, dining halls, the faculty club rooms, and a spacious reception room. It was named in honor of Kentucky's former governor who has served on the Board of Regents since 1936.

Telford Music Building

The Telford Music Building was formely the manse of the First Presbyterial Church. It was purchased from the Presbyterian Church in 1938 and completely remodeled. In it are the studios of all the teachers of music except the director, and also several practice rooms. It is named for Dr. R. L. Telford, who was minister of the First Presbyterian Church for many years and who was living in the building at the time of his death.

Individual Residences

There are three individual residence buildings that are also a part of the campus. Two of these are two-story brick buildings that were a part of the Central University campus. One of these is the residence of the Superintendent of Buildings and Grounds, and the other is now the home economics practice house. It provides the residence for those students in the home economics department who take the laboratory course in household management. Here the girls live and work together for about twelve

weeks, co-operatively preparing their own meals, doing their own marketing, entertaining their guests, and making a pleasant home life for themselves. The third residence is a two-story frame building on South Second Street. It was purchased by the college in 1940 and used for a time as the home economics practice house, but is now occupied by a member of the faculty and his family.

ESTIMATED EXPENSES

The necessary college expenses for one quarter of twelve weeks averages about $130.00. This estimated amount is based on the following itemized statement:

Incidental fee $22.50

Board, if all meals are taken in the college cafeteria 60.00
Board may be more or less than this amount, depending on the needs of the individual student.

Room rent 21.00
Room rent varies from $12.00 to $27.00 per quarter for women and from $18.00 to $24.00 per quarter for men.

Books and supplies approximately 15.00

Other expenses 11.50

The above estimate does not include laundry, clothes, and personal spending money.

Students wishing to take private music lessons must also add the music fees to the above estimates in calculating the total expenses for a quarter. Music fees are listed in the section of this catalog dealing with music courses.

All fees, including the incidental fee, are payable in advance. Board and room rent may be payable in two equal installments, one at the beginning of the quarter and the other at the middle of the quarter.

FEES

Incidental.—Student registration fees are as follows:

Each quarter for Kentucky students	$22.50
Each quarter for out-of-state students	35.00
Each quarter for students carrying less than 12 hours per quarter hour	2.00
Each quarter for graduate students per quarter hour	2.00

Laboratory.—The fees to be paid for laboratory courses are indicated in connection with descriptions of these courses in another part of this catalog. Laboratory fees cover the cost of materials and laboratory service furnished.

Locker, Lock, Towel, and Uniform.—Students who use lockers in the Weaver Health Building are required to pay a rental of $1.50 per quarter for use of locker, combination lock for locker, and towel. This fee includes laundry service for towels, bathing suits and gymnasium uniforms for the entire quarter.

Laundry and Linen Service.—Students who occupy dormitory rooms pay a fee of $1.50 each quarter for laundry and linen service. This fee covers the rental charge for sheets and pillow cases furnished by the college and provides laundry service for them.

Athletic.—Students who enroll for the fall quarter pay an athletic fee of $2.00 for the school year plus the usual federal tax. Students who enter the institution at the beginning of the winter quarter pay an athletic fee of $1.00 plus the usual federal tax.

Late Registration.—Students who register after the opening date of a quarter are required to pay a late registration fee of $2.00.

Change of Schedule.—A fee of $1.00 will be charged for each voluntary change which a student makes in his schedule after it has been prepared and approved at the time of registration.

Graduation.—The graduation fee is $7.50. This fee covers cost of diploma, cap and gown rental, and other expenses incidental to graduation.

Special Examination.—Students to whom it is necessary to give a special examination after the scheduled time for same will be charged a fee of 50c. This fee covers such services as physical examinations, classification tests, pictures, etc. A special examination as used here is not interpreted to mean examinations for entrance, course examinations, and examinations for advanced standing.

Transcript.—Each student will be given one transcript of his work without charge. There will be a fee of $1.00 for each additional transcript after the first one has been furnished.

LIVING ACCOMMODATIONS

Students who do not live in dormitories are required to live in homes approved by the college. All students not living in their own homes, whether rooming in the dormitories, in private homes, or in rooming houses, are alike subject to the regulations, control, and supervision of the college.

Dormitory Rooms for Women Students.—Eastern has comfortable and convenient dormitory accommodations for 528 students. Practically all dormitory rooms are equipped to provide living quarters for two students; however, there are a few corner rooms in which three students may live. Each suite of two rooms in the central and south sections of Burnam Hall has a private bath. Central bathrooms are located on each floor of Sullivan Hall and the north section of Burnam Hall.

Regulations.—Women students are required to occupy dormitory rooms while rooms are available on the campus. After the dormitories are filled, women students may take rooms in private homes in Richmond, but should not engage rooms without first consulting the Dean of Women.

All students living in private homes in Richmond are required to room in homes approved by the college.

Rate of Room Rent for Women Students.—The rate of room rent varies according to the location, furnishings, equipment, and the number of students occupying a room.

BURNAM HALL—

Front rooms	$27.00	per	quarter	per	student
Outside rooms—South section	24.00	"	"	"	"
Inside rooms—on court	21.60	"	"	"	"
Front rooms—North section	18.00	"	"	"	"
All other rooms—North section	16.20	"	"	"	"
New addition	24.00	"	"	"	"

SULLIVAN HALL—

Front rooms	$16.20 to $18.00	per	quarter	per	student
All other rooms except fourth floor	16.20	"	"	"	"
Rooms on fourth floor	12.00	"	"	"	"

Dormitory Rooms for Men Students.—The dormitories for men at Eastern will accommodate 234 students. Most of the rooms accommodate two students. There are a few three-student rooms.

Rate of Room Rent for Men Students.—Room rent varies according to the facilities provided.

MEMORIAL HALL—

Rent of rooms in this hall ranges from $18.00 to $21.60 per quarter per student.

BECKHAM HALL, McCREARY HALL, AND MILLER HALL—All rooms in these halls rent for $24.00 per quarter per student.

Dormitory Room Reservations.—Students desiring to have rooms reserved in the dormitories should write for application forms. When applying for dormitory reservations, students should mention the price of room preferred.

Applications for room reservations are filed in the order in which they are received, and in that order rooms are assigned. Rooms can generally be assigned promptly upon receipt of applications.

Room reservations cannot be transferred and are void unless claimed by 4:30 p. m. on the opening day of the quarter.

Room Deposit.—When the room assignment is received by the student, a room deposit fee of $5.00 must be paid within ten days to make the reservation permanent. This fee is retained by the college, as a guarantee of the proper care of room and furnishings, until the termination of the student's stay in the dormitory, at which time the whole, or such part of it as may be due after deduction for damage is made, will be refunded to the student.

Room reservation fees should not be sent until dormitory assignments have been received. A room reservation fee will be refunded only when receipt is surrendered not later than ten days before the opening of the quarter.

Off-Campus Rooms for Students.—A number of homes in Richmond are equipped to take care of students who are unable to secure rooms in the dormitories. A few of these homes have apartments and facilities for light housekeeping. Furnished and unfurnished homes may be rented by married couples or families. Students interested in renting off-campus rooms may secure a list of those approved by the college by writing to the Assistant Director of Extension.

COLLEGE CAFETERIA

The cafeteria is operated by the college for the convenience of the students. Most of the students, including those who live off the campus as well as those who live on the campus, find it to their advantage to take their meals in the cafeteria.

BOOK STORE

The college book store is located on the ground floor of the Student Union Building. It is operated by the college and provides books and classroom supplies to students at reasonable prices.

COLLEGE POST OFFICE

The college post office provides mail service for all students who live in the dormitories. An individual lock box is assigned to each person. The post office is located on the ground floor of

the Student Union Building. Students receiving their mail through the college post office should have all mail addressed in the following manner: Mr. John Smith, Box 231, College Post Office, Eastern Teachers College, Richmond, Kentucky.

Students with off-campus rooms do not receive their mail through the college post office. Their mail should be addressed to the house in which they are living.

STUDENT HEALTH SERVICE

The Department of Health at Eastern, under the direction of a full-time physician and a nurse, provides health service for every student. The service includes an annual physical examination for each student, medical advice and attention at all times, immunizations against contagious diseases, limited hospitalization, and classes in first aid, safety, and personal and community hygiene. The health program at Eastern emphasizes preventive treatment. No charge is made for any of these services to the students.

PHYSICAL EDUCATION

Athletics.—Eastern has intercollegiate athletic teams in football, basketball, baseball, track, tennis, and swimming. These teams participate in a schedule of contests with other college teams each year. Eastern is a member of the Kentucky Intercollegiate Athletic Conference and the Southern Intercollegiate Athletic Association. All official intercollegiate athletic events in which the college participates are governed by the rules and regulations of these two organizations.

Play and Recreation.—Eastern affords its students opportunities for play and recreation. Recreational activities are required of all freshmen and sophomores. These activities, offered during school hours, are varied and seasonal. The aims are to develop regular habits of play, physical strength, vigor and sportsmanship. The utilitarian values of participation in such activities are stressed. Sports, such as playground baseball, volley ball, soccer, speedball, hockey, lacrosse, track, field archery, handball, lower organized games and their modifications, are offered.

Every student has an opportunity to participate in the leisure-time activities which are offered in seasonal tournaments. These tournaments are organized through the medium of classes, societies, and recreational sections.

The Swimming Pool.—The swimming pool in the Weaver Health Building serves both the college and the training school. Only bona fide students and those officially connected with the institution are permitted to use the pool. A complete physical examination and a health certificate are required for admission. Students who expect to use the pool should see the college physician and arrange to take a complete physical examination. Regu-

lation cotton bathing suits are required. Admission to the pool is strictly according to schedule.

OPPORTUNITY FOR STUDENT EMPLOYMENT

A limited number of students may earn a part of their expenses by doing various kinds of jobs for the college cafeteria, library, book store, post office, dormitories, administrative offices, college farm, etc. Some students may also secure part-time employment in Richmond stores, restaurants, and other business establishments.

Students are advised not to enter expecting employment of this kind unless they have arranged for it in advance. All applications for student employment should be addressed to: The Dean, Eastern Kentucky State Teachers College, Richmond, Kentucky. As a general rule students should enter Eastern prepared to pay all their expenses for at least on quarter.

LOANS, SCHOLARSHIPS, AND SPECIAL AWARDS

Loans.—The student loan fund of the Eastern Kentucky State Teachers College is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upper-class students. Those having high scholarship records will be given preference in the granting of loans. This fund makes it possible for a worthy student to borrow a small amount of money on a personal note at legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

William Davis Scholarships.—Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of students living in the Lona Estella Davis school district of Rowan County, to be used as scholarships at the Eastern Kentucky State Teachers College. These scholarships of $200.00 each are awarded by the superintendent of Rowan County schools and the president of the Eastern Kentucky State Teachers College. A student desiring to secure one of these scholarships should make application to the superintendent of Rowan County Schools.

Music Scholarships.—The college awards annually three scholarships of $54.00 each to those students who make the most satisfactory progress in piano, voice, and violin.

Science Club Medal.—The Science Club presents annually a medal to that senior majoring in any of the sciences who has achieved the highest standing in science during his college course.

Regents Medal for Oratory.—The Regents of the college present annually a medal for the best oration given by a college student under the direction of the proper authorities.

Kappa Delta Pi Scholarship Award.—Delta Alpha Chapter of Kappa Delta Pi presents annually a medal to the sophomore with the highest scholastic standing. A student to be eligible must be in good standing in the institution.

Student Service Award.—An award presented annually by members of the young women's and young men's Christian associations to that member of the graduating class who, during his or her four years at Eastern, has given the greatest measure of service to those with whom he or she has lived and worked.

STUDENT ORGANIZATIONS

The student organizations, societies, and clubs at Eastern are varied enough in their activities to include the interests of all the students. While the membership in them is voluntary, all students find it to their advantage to identify themselves with at least one of these activities. Students receive in these extra-curricular activities a type of training which is impossible for them to get in the classroom. The opportunity for social life among the students, along with the professional and intellectual interests, is a valuable feature of the student activities.

Student organizations at Eastern include:

Departmental Clubs.—Agriculture, Alpha Rho Tau (Art), Canterbury Club (English Majors), Cercle Francais (French Majors), Elementary Council (Elementary Education), Future Teachers of America, Home Economics Club, Iota Alpha Gamma (Industrial Arts Club), Mathematics, Physical Education, Science, Sigma Tau Pi (Commerce Majors), Social Science, World Affairs (Geography and Geology Majors).

Literary and Dramatic Clubs.—Alpha Zeta Kappa (Public Speaking and Debating), Little Theatre Club.

Musical Organizations.—College Band, College Dance Orchestra, Eastino Club (Freshman Girls' Glee Club), Madrigal Club (Upper-class Girls' Glee Club), Men's Glee Club, Messiah Chorus, Orchestra.

Professional Clubs.—Caduceus Club (Medicine, Dentistry), Florence Nightingale Club (Nursing), Phalanx Club (ROTC).

Regional Clubs.—Capitol City Club, Corbin Club, Harlan County Club, North Central Kentucky Club, Northern Kentucky Club, Perry, Leslie and Knott County Club, Upper Cumberland Club.

Religious Organizations.—Baptist Student Union, Catholic Club, Christian Youth Fellowship, Young Women's Auxiliary,

Young Men's Christian Association, Young Women's Christian Association, Methodist Youth Fellowship.

Miscellaneous Organization.—"E" Club (Letter Students in Athletics), Kyma Club (Pep Club), Photo Club, 4-H Club.

Honorary Fraternities.—Alpha Psi Omega (National Honorary Dramatic Fraternity), Kappa Delta Pi (Honorary Educational Society), Pi Omega Pi (National Commercial Teachers).

PUBLICATIONS

The Milestone.—The Milestone is the college annual published each year by the representatives of the Senior Class. This publication contains photographic and statistical records of all organizations and events of the college year.

The Eastern Progress.—The Eastern Progress is published semimonthly by the students and is the newspaper of the college.

Eastern Kentucky Review.—This publication is the official review published by the college. It is edited by the faculty.

FINE ARTS SERIES

It is the purpose of Eastern to surround her students with every cultural advantage. To this end much time and effort are expended to provide programs by the foremost artists. Each student is able to attend these concerts at a very small expense.

CHURCH AFFILIATIONS

Eastern is a state-supported institution and is, therefore, nondenominational, but religious activities among the students are encouraged. Meeting places and faculty supervision are provided for such religious organizations as the Baptist Student Union, Christian Youth Fellowship, Methodist Youth Fellowship, Y. M. C. A., Y.W.C.A., and Catholic Club. Churches of the leading denominations are located in Richmond.

STUDENT GUIDANCE AND PERSONNEL SERVICES

The personnel program at Eastern is planned to help students meet their individualized needs and to achieve success. Also to help students avoid experiences which are likely to be too costly, the best available tools, techniques, and resources are used.

The personnel services of the college are related to: (1) Admission of new students; (2) orientation of freshmen; (3) evaluation and counseling of students; (4) mental and physical health; (5) provision for well-rounded student activities; (6) supervision of adequate living facilities; (7) maintenance of useful personnel records; (8) provision for employment, placement, and follow-up requirements.

Many staff mmbers handle various aspects of the personnel work. The Dean of the College, the Registrar, the Dean of Women,

the Dean of Men, the Director of Personnel, and in fact, all members of the faculty counsel students. The College Physician handles health problems; the Dean of Women and the Dean of Men provide counsel relative to social life, living facilities, and related problems of students; and other consultants render specialized guidance as needed by students and as implied by a modern philsopohy of education.

Personnel services are provided at Eastern for all new students; additional, optional services are available to help individuals with their planning; and clinical services are arranged to meet special needs. All personnel activities, however, are designed to be practical. They are provided to help students attain a maximum personal, social, and academic development in a stimulating environment.

STUDENT WELFARE

Eastern is responsible to the State for the character and scholarship of its graduates—those who are to teach in the public schools. The institution will, therefore, ask students to withdraw if they are found unfit or in any way unworthy to become teachers.

Only a few rules and regulations are necessary. Students are to be ladies and gentlemen under all circumstances. This is the chief requirement. Parents may send their boys and girls here with the assurance that their safety, their general culture and their education will be carefully guarded.

ASSEMBLY PROGRAMS

The assembly programs constitute an integral part of the work of the institution. Students ar required to attend these programs.

ADMISSION REQUIREMENTS

Graduation from an accredited high school with two majors, on of which shall be English, and a minor is required for admission to the freshman class. A minimum of three units is required for a major and a minimum of two units is required for a minor.

Applicants for admission who have completed high school work at non-accredited secondary schools may be admitted by examination in this institution.

Experienced teachers over twenty-one years of age who are unable to meet entrance requirements stated above are admitted to such work as they are qualified to take, but no certificate will be recommended or degree issued until all requirements, including entrance requirements, shall have been met.

All veterans of World War II will be admitted to courses which they are qualified to pursue successfully. Those who can not meet the regular entrance requirements will be accepted as special

students. Opportunities will be given to make up entrance deficiencies by means of special classes, by examinations, and refresher courses.

ADVANCED STANDING

Candidates for advanced standing will be given credit on work earned in accredited institutions when the work is officially certified by the Registrar of the institution. The amount of credit allowed will depend on the quality of the work and on the extent to which it corresponds to the requirements in the curriculum to be followed at Eastern.

Veterans of World War II who have received training while in service that is equivalent to college work will be given credit. The HANDBOOK published by the American Council on Education, will be accepted as the guide in evaluating work completed while in service.

Credit will not be allowed on courses carrying a grade below "C" unless the student has taken the sequent course and made a grade of "C" or better. In no case will the credit allowed exceed the number of quality points.

Students classified as juniors or seniors in this institution who wish to take work in other colleges to meet requirements for the degree should secure the permission of the Dean or Registrar before enrolling for the work.

HOW COURSES ARE NUMBERED

Courses are numbered according to the following scheme:

Courses numbered 10 to 29 are primarily for freshmen and sophomores.

Courses numbered 30 to 49 are primarily for juniors and seniors.

Courses numbered 50 to 59 are for graduate students.

GRADING SYSTEM

Grades are indicated by letters, to each of which is given a certain value in "grade points." The following is the interpretation placed upon the grading system:

Grade	Meaning	Grade Points per Quarter Hour
A	Excellent	3
B	Good	2
C	Average	1
D	Poor	0
F	Failure	0
I	Incomplete	
Z	Conditioned	

The grades A, B, C, D, and F cannot be changed by the instructor. A grade of "D" gives credit toward a certificate or a degree if with such credits the student's standing is 1 or more. A grade of "I" shall be assigned only upon condition the student has been unable to complete the course on time because of unavoidable conditions. A grade of "I" must be made complete within one month after the student re-enters the institution. All grades of "I" automatically become "F" if not completed at the end of a year. The grade of "Z" shall represent a degree of attainment inferior to that of a "D" and shall not entitle the student to any credit but shall promote him to a sequent course in the same department specified by the instructor or head of the department. On completion of this sequent course with a grade of "D" or higher, the mark of "Z" shall be changed automatically to a grade of "D."

The standing of a student is defined as the ratio of his total number of "grade points" to his total number of quarter hours credit. In order for a student to fulfill the requirements for a certificate or a degree he must offer a number of "grade points" at least as great as the number of quarter hours.

STUDENT LOAD

The normal load for a quarter for undergraduate students is sixteen quarter hours exclusive of Physical Education 10. The minimum load to be classed as a full-time student is twelve quarter hours. Students who have established superior records in the institution may be permitted to enroll for more than sixten quarter hours provided the approval of the Dean of the college is secured at the time of registration. The maximum load, however, shall not exceed twenty-one quarter hours exclusive of Physical Education 10.

Correspondence work may be taken while in residence only on condition that it is counted as a part of the load. The combined load of correspondence and residence work can not exceed the amount the student may take in residence. This regulation applies regardless of the institution with which the student does correspondence work.

STANDARD OF WORK

For a quarter the minimum standard of achievement which enables a student to re-enroll without question in the college is eight quarter hours' credit and the grade points.

(a) Failure to meet this standard shall automatically exclude the student from subsequent registration except in the case of a beginning freshman. Such freshman may be registered for such load as the Registrar may assign provided the load shall not be less than 9 quarter hours in a quarter. In each such case of re-registration a specific authorization of load shall be entered on record by the Registrar. Students admitted under this provision

are automatically placed on probation for the quarter. Failure during the probation period to meet the minimum standards makes the student ineligible for re-enrollment the following quarter except as provided in (c).

(b) The foregoing rule setting forth automatic exclusion because of failure to meet the minimum standard may be waived by a permanent committee appointed by the President and authorized to exercise such waiver. The committee at its discretion may waive the rule and authorize the re-registration of persons with credit sufficient to classify them above the freshman year in case such persons fail to meet the minimum standard in one quarter.

(c) The committee at its discretion may permit by waiver the re-registration of a person in the freshman year after that person has been re-admitted once and has had a load assigned by the Registrar as provided in (a) above and has failed the second time to meet the minimum standard.

WITHDRAWALS

Occasionally home conditions or some other factor makes it necessary for students to withdraw. In such cases the student must see the President and arrange for the withdrawal. Any student who quits school or withdraws without securing the approval of the President may not register again unless the President sees fit to reinstate him.

OFFICIAL SCHEDULE CHANGES

The college reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

COMMENCEMENT

Commencements are held at the close of the academic year and at the end of the summer school. Students who are candidates for degrees are required to participate in the commencement exercises unless excused by the President. A student who completes the requirements for a degree during the fall quarter or during the winter quarter will receive the degree immediately following the completion of the work and will be regarded as a member of the graduating class immediately succeeding the completion of the work.

ALUMNI ASSOCIATION

The purpose of the Alumni Association is to promote fellowship among the ever-increasing number of graduates and to stimulate a mutual interest between the institution and her former students.

All graduates and former students are considered members of the Alumni Association. Those who pay dues of $1.00 per year are active members. All others are classed as inactive.

EXTENSION DIVISION

Through the Extension Division Eastern provides correspondence courses, extension-class instruction, lecturers, and various types of public school service.

Correspondence Courses.—Correspondence courses are prepared and conducted by regular members of the faculty and are, in so far as possible, identical with resident courses. For further details see Extension Division bulletin or write Director of Extension Division for additional information.

Extension Classes.—Regular members of the faculty conduct extension classes in cities and communities where teachers desire to pursue work in class groups in practically the same way as they would in residence. The cost of extension-class instruction is reasonable. For further details see Extension Division bulletin or write Director of Extension Division for additional information.

Restrictions on Extension Work.—A maximum of forty-eight hours of the required 192 hours for a Bachelor's degree may be earned by extension. One-half of the work required for renewal of a certificate may be earned by extension. Those who plan to teach and take extension work should distribute the work over the year.

Correspondence credit is recorded as having been earned at the time of completion of the final test. The above restrictions are statewide and apply to all institutions alike.

BUREAU OF APPOINTMENTS

A placement bureau is maintained by the college to assist students and ex-students in obtaining positions and to aid superintendents, principals, and other public school officials to secure the best qualified individuals to fill their vacancies. No charge is made for this service.

THE TRAINING SCHOOL

The campus laboratory school enrolls about 340 pupils and has fourteen supervising teachers. Its organization includes the Elementary Training School of six grades located in Cammack Building, the Model High School of six grades located in University Building, and the one-room Rural Demonstration School of eight grades situated near by on the college farm.

Pupils who attend the campus training school come from the city and county in the surrounding community. The number of pupils for each grade is limited to thirty. Listed below are the annual registration fees in the elementary school and the high school:

Grades 1 to 6 inclusive	$ 8.00
Grades 7 to 12 inclusive	12.00

The first consideration in the administration of the Training School is to make of it a superior school for the children who attend it. Its value to the State in the training of teachers depends upon the quality of its work and how well the needs of children are met.

Its philosophy and procedures are learned by teachers in training through directed observation and supervised practice. This is not a frontier school, but its aim is to exemplify progressive trends in educational practice, trends which may be accepted as practicable by the more alert schools of the State, and which might influence many schools. A training school should lean forward constantly without losing balance.

College students in professional courses and in professionalized or special methods courses come into the Training School by appointment to observe. A limited number of students preparing to meet the requirements for a "Provisional Elementary Certificate" spend a half day in the school observing and participating for a quarter. The school is used to a limited extent for experimental work in which college students generally participate.

Student Teaching.—Supervised student teaching is done in the Trainign School or in affiliated public schools. Students wanting to do student teaching are expected to file applications in the Personnel office several weeks before the quarter opens. They must have had as much as one quarter of resident work at Eastern, and all college credits should be on file in the Registrar's office. They must also meet certain standards in general scholarship, special academic preparation, use of English, health, personality, and professional attitude.

CURRICULA

Teacher-Education Curricula.—The curricula offered by the college have been planned and developed to meet the needs of students who desire to become teachers, supervisors, and administrators in the public schools. Curricula are offered for the preparation of elementary teachers; for teachers of the special subjects of agriculture, art, commerce, health and physical education, industrial arts, music, and vocational home economics; and for the preparation of high school teachers in fields of biology, chemistry, English, French, geography and geology, history, Latin, mathematics, and physics. These curricula lead to the professional baccalaureate degrees.

Nonprofessional Curricula.—The college offers a special nonprofessional curriculum in the field of commerce. This curriculum provides adequate training in the field of commerce (accounting, general business, and secretarial work) to meet the needs of students who desire to enter the field of business.

A four-year curriculum in general education is also offered. Completion of this curriculum entitles the student to receive the nonprofessional baccalaureate degree.

Pre-Professional Curricula—Pre-Medical, Pre-Law, Pre-Engineering, and the like.—The institution offers the courses needed by students who are preparing to enter medical schools, colleges of law, colleges of engineering, and the like.

Students who take their pre-professional work at Eastern are able to satisfy the entrance requirements of the leading schools of medicine, colleges of law, colleges of engineering, and other professional institutions.

PROGRAM OF STUDIES FOR FRESHMAN STUDENTS

The college offers a wide variety of courses designed to meet the needs of first year students. In view of the fact that many beginning students have not decided what curriculum to follow, a program has been planned to include a considerable amount of work in the field of general education, and at the same time afford an opportunity for the student to select courses to meet his particular needs.

Library Science 10, Library Orientation, and Sociology 10, College Orientation, should be completed during the first quarter. First year students should complete English 10a, 10b, and 10c, Spoken and Written Communication I, II and III. All students are expected to register for Physical Education 10, Fundamental Physical Education Activities, during the entire year.

In addition to the above courses, the student selects other work to make a total of approximately sixteen quarter hours for each quarter. It is expected that the student will select courses to fulfill the requirements for the curriculum he expects to follow.

DEGREES

Professional Degrees.—The Eastern Kentucky State Teachers College confers three professional degrees; namely, the Bachelor of Arts degree, the Bachelor of Science degree, and the Master of Arts degree in Education.

Nonprofessional Degrees.—Nonprofessional degrees of Bachelor of Arts and Bachelor of Science are conferred by the college.

The Bachelor of Arts degree is conferred upon students who major in Art, English, French, Geography and Geology, History, Latin, Music, and Social Science.

The Bachelor of Science degree is conferred upon students who major in Agriculture, Biology, Chemistry, Commerce, Elementary Education, Health and Physical Education, Home Economics, Industrial Arts, Mathematics, Physics, and Science.

GENERAL REQUIREMENTS FOR DEGREES

The degree of Bachelor of Arts or Bachelor of Science is conferred upon those students who have completed an approved four-year curriculum. The minimum amount of credit required for the bachelor's dgree is one hundred and ninety-two quarter hours of college credit exclusive of Physical Education 10. Not more than forty-eight quarter hours of the work required for a degree may be earned by extension and/or correspondence. A candidate for a degree must have been in residence a minimum of thirty-six weeks (at least eighteen of which must have been in the senior year) and must have earned a minimum of forty-eight quarter hours while in residence.

The curriculum which the student expects to follow for the completion of the requirement for the bachelor's degree must be filed in the office of the Dean of the college not later than the end of the freshman year. In the case of transfer students the curriculum must be filed before the end of the first quarter or term of resident work. The curriculum must be approved by the Dean of the college and by the major and minor professors.

A minimum of forty per cent of the quarter hours of credit offered in fulfillment of the requirements for the bachelor's degree must be of senior college level.

SPECIFIC REQUIREMENTS FOR PROFESSIONAL DEGREES

MAJOR IN THE AREA OF COMMERCE

Deparmental Requirements:

English 10a, 10b, 10c, 21a, 21b, 21c ..... 18 hrs.
Government 10, 11 ..... 8 hrs.
Health 26 ..... 4 hrs.
History 10, 11, 20, 21 ..... 16 hrs.
Library Science 10 ..... 1 hr.
Mathematics 10, 11, 12 ..... 12 hrs.
Physical Education 10 (6 quarters), 21 ..... 5 hrs.
Science 10, 11, 12 ..... 12 hrs.
Sociology 10 ..... 1 hr.

Major Requirements:

Commerce, 5, 10, 11, 12, 14a, 14b, 15a, 15b, 16a, 16b, 17, 23, 27a, 27b, 27c, 27d, 27e, 28, 29, 32, 36a, 36b, 39a, 39b, 39c, 40, 49a, 49b, 49c ..... 82 hrs.

Professional Requirements:

Education 21, 30 or 41, 34 or 44, 36, 46 ..... 32 hrs.

MAJOR IN ELEMENTARY EDUCATION

Art 10, 23, 26 ..... 10 hrs.
Education 20, 21, 22, 26, 31, 40, 42, 43, 46 ..... 52 hrs.
English, 10a, 10b, 10c, 12, 21a, 21b, 21c, 24 ..... 26 hrs.
Geography 10, 22, 32 ..... 12 hrs.
Government 10, 11 ..... 8 hrs.
Health 26 ..... 4 hrs.
History 10, 11, 20, 21, 22 ..... 20 hrs.
Industrial Arts 16 ..... 2 hrs.
Library Science 10 ..... 1 hr.
Mathematics 26 ..... 4 hrs.
Music 25a, 25b, 27, 34 ..... 10 hrs.
Physical Education 10 (6 quarters), 20 ..... 5 hrs.
Science 10, 11, 12, Biol. 26 ..... 16 hrs.
Sociology 10, 30 ..... 5 hrs.

MAJOR IN THE AREA OF ENGLISH

Departmental Requirements:

Foreign Language ..... 8 to 16 hrs.
Health 26 ..... 4 hrs.
History 10, 11, 20, 21 ..... 16 hrs.
Library Science 10 ..... 1 hr.
Physical Education 10 (6 quarters), 21 ..... 5 hrs.
Sociology 10 ..... 1 hr.
Science 10, 11, 12, or Biology 10, 11, 12 ..... 12 hrs.

Major Requirements:

English 10a, 10b, 10c, 12, 20a or 20b, 21a, 21b, 21c, 22, 23 or 31, 24, 25 or 46, 26, 27a or 27b, 30a, 30b, 32a or 32b, 33, 34a or 34b, 35a or 35b, 36, 37a or 37b, 47, 39 or 40, one course from group: 42, 43, 44, 45, and electives to total 64 hours exclusive of freshman English.

Professional Requirements:

Education 21, 30 or 41, 34 or 44, 36, 46 ..... 32 hrs.

MAJOR IN VOCATIONAL HOME ECONOMICS

Departmental Requirements:

Art 10, 27 ..... 8 hrs.
Biology 10, 11, 12, 29 ..... 16 hrs.
Chemistry 11, 12, 13, 20 ..... 16 hrs.
Commerce 28 ..... 4 hrs.
English 10a, 10b, 10c, 21a, 21b, 21c ..... 18 hrs.
Health 21, 22, 26, 31 ..... 12 hrs.
Library Science 10 ..... 1 hr.
Physical Education 10 (6 quarters), 21 ..... 5 hrs.
Physics 10 ..... 4 hrs.
Sociology 10, 30 ..... 5 hrs.

Major Requirements:

Home Economics 10, 11, 12, 20, 21, 22, 23, 24, 30, 33, 35, 36, 40, 41, 43, 46 ..... 52 hrs.

Professional Requirements:

Education 21, 34, 41, 36, 46 ..... 32 hrs.

MAJOR IN THE AREA OF INDUSTRIAL ARTS

Departmental Requirements:

Art 10, 26, 6 hours elective ..... 14 hrs.
English 10a, 10b, 10c, 21a, 21b, 21c ..... 18 hrs.
Health 20, 26 ..... 6 hrs.
History 10, 11 ..... 8 hrs.
Library Science 10 ..... 1 hr.
Mathematics 10, 11, 12 ..... 12 hrs.
Physical Education 10 (6 quarters), 21 ..... 5 hrs.
Physics 20, 21, 22, or Chemistry 11, 12, 13 ..... 12 hrs.
Sociology 10 ..... 1 hr.

Major Requirements:

Industrial Arts 10, 11, 13, 15, 20, 21, 26, 31, 34, 35, 36, 37, 46, and 26 hours elective ..... 72 hrs.

Professional Requirements:

Education 21, 30 or 41, 34 or 44, 36, 46 ..... 32 hrs.

MAJOR IN THE AREA OF MUSIC

Departmental Requirements:

English 10a, 10b, 10c, 21a, 21b, 21c ..... 18 hrs.
Health 26 ..... 4 hrs.
Library Science 10 ..... 1 hr.
Physical Education 10 (six quarters), 21 ..... 5 hrs.
Sociology 10 ..... 1 hr.

In addition to the requirements listed above a total of forty-two quarter hours must be selected from the following fields: fine arts; foreign language; health, physical education, and safety; mathematics; biological science; physical science; social science; vocational fields. Not fewer than three nor more than four fields are to be represented in the required forty-two hours, and not fewer than eight quarter hours may be presented in any one of the three or four fields. Departmental requirements must be selected in fields not used by the student for majors and minors, except in the case of English.

Major Requirements:

Music 10a, 10b, 10c, 11a, 11b, 11c, 12a, 12b, 12c, 16a, 16b, 16c, 18, 27, 28a, 28b, 28c, 29a, 29b, 29c, 34, 37a, 37b, 37c, 38a, 38b, 38c, 39a, 39b, 39c, 41, 42, 6 hours from the following: 21, 22, 23 or 24, 6 hours applied electives, and electives in Music to make ..... 72 hrs.

Professional Requirements:

Education 21, 30 or 41, 34 or 44, 36, 46 ..... 32 hrs.

MAJOR IN THE AREA OF SCIENCE

Departmental Requirements:

English 10a, 10b, 10c, 21a, 21b, 21c ..... 18 hrs.
Health 26 ..... 4 hrs.
Library Science 10 ..... 1 hr.
Mathematics 10, 11, 12 ..... 12 hrs.
Physical Education 10 (six quarters), 21 ..... 5 hrs.
Sociology 10 ..... 1 hr.

In addition to the requirements listed above a total of forty-two quarter hours must be selected from the following fields: fine arts; foreign language; health, physical education, and safety; mathematics; biological science; physical science; social science; vocational fields. Not fewer than three nor more than four fields are to be represented in the required forty-two hours, and not fewer than eight quarter hours may be presented in any one of the three or four fields. Departmental requirements must be selected in fields not used by the students for majors and minors, except in the case of English.

Major Requirements: **Group A**

Biology 10, 11, 12, 20, 21, 27, 28, 29 and 4 hours elective ..... 36 hrs.
Chemistry 11, 12, 13 ..... 12 hrs.
Geology 20 ..... 4 hrs.
Physics 20, 21, 22 ..... 12 hrs.
Electives in Biology, Chemistry, Physics ..... 8 hrs.

Group B

Chemistry 11, 12, 13, 21, 23, 24, 26, 27 and 4 hours elective ..... 36 hrs.
Biology 10, 11, 12 ..... 12 hrs.
Geology 20 ..... 4 hrs.
Physics 20, 21, 22 ..... 12 hrs.
Electives in Biology, Chemistry, Physics ..... 8 hrs.

Group C

Physics 20, 21, 22, 30, 34, 40, and 12 hours elective.. 36 hrs.
Biology 10, 11, 12 ..... 12 hrs.
Chemistry 11, 12, 13 ..... 12 hrs.
Geology 20 ..... 4 hrs.
Electives in Biology, Chemistry, Physics ..... 8 hrs.

Professional Requirements:

Education 21, 30 or 41, 34 or 44, 36, 46 ..... 32 hrs.

MAJOR IN THE AREA OF SOCIAL SCIENCE

Departmental Requirements:

English 10a, 10b, 10c, 21a, 21b, 21c ..... 18 hrs.
Health 26 ..... 4 hrs.
Library Science 10 ..... 1 hr.
Physical Education 10 (six quarters), 21 ..... 5 hrs.

In addition to the requirements listed above a total of forty-two quarter hours must be selected from the following fields: fine arts; foreign language; health, physical education, and safety; mathematics; biological science; physical science; social science; vocational fields. Not fewer than three nor more than four fields are to be represented in the required forty-two hours, and not fewer than eight quarter hours may be presented in any one of the three or four fields. Departmental requirements must be selected in fields not used by the student for majors and minors, except in the case of English.

Major Requirements:

Commerce 28, 29 ..... 8 hrs.
Geography 10, 40, 22 or 32 ..... 12 hrs.
Geology 20 ..... 4 hrs.
Government 10, 11 ..... 8 hrs.

History 10, 11, 20, 21, 22, 30, 31 ..... 28 hrs.
Sociology 10, 30, 31 ..... 9 hrs.
Electives in Commerce, Geography, Government, History, Sociology ..... 4 hrs.

Professional Requirements:

Education 21, 30 or 41, 34 or 44, 36, 46 ..... 32 hrs.

MAJORS IN THE SUBJECTS OF AGRICULTURE, ART, BIOLOGY, CHEMISTRY, ENGLISH, FRENCH, GEOGRAPHY AND GEOLOGY, HEALTH AND PHYSICAL EDUCATION, HISTORY, HOME ECONOMICS, INDUSTRIAL ARTS, LATIN, MATHEMATICS, MUSIC, PHYSICS, SOCIAL SCIENCE

Major and Minor Requirements:

A major and two minors or two majors must be completed. A major is defined as a minimum of thirty-six quarter hours and a minor is defined as a minimum of twenty-four quarter hours. The amount of credit for majors and minors is not the same for all departments.

The student must file in the office of the Dean of the college, not later than the end of the freshman year, the curriculum to be followed in completing the requirements for the degree. The curriculum must include minimum departmental requirements as follows:

Departmental Requirements:

English 10a, 10b, 10c, 21a, 21b, 21c ..... 18 hrs.
Health 26 ..... 4 hrs.
Library Science 10 ..... 1 hr.
Physical Education 10 (six quarters), 21 ..... 5 hrs.
Sociology 10 ..... 1 hr.

In addition to the requirements listed above a total of forty-two quarter hours must be selected from the following fields: fine arts; foreign language; health, physical education, and safety; mathematics; biological science; physical science; social science; vocational fields. Not fewer than three nor more than four fields are to be represented in the required forty-two hours, and not fewer than eight quarter hours may be presented in any one of the three or four fields. Departmental requirements must be selected in fields not used by the student for majors and minors, except in the case of English.

Professional Requirements:

Education 21, 30 or 41, 34 or 44, 36, 46 ..... 32 hrs.

REQUIRED COURSES FOR SUBJECT MAJORS AND MINORS

Agriculture:

Major—11, 12, 20, 21, 22, 23, 24, 32, 33, 41
Related courses—Biology 10, 11, 12, 20
Chemistry 11, 12, 13
Minor—11, 12, 20, 22, 30, 31

Art:

Major—10, 11, 20, 22, 23, 26, 30, 31, 33, 36 or 46, 40 or 41
Minor—10, 11 or 20, 22, 23, 26, 31, 33, 36 or 46 or 4 hours elective

Biology:

Major—10, 11, 12, 20, 21, 27, 28, 29, 30, 31, 4 hours elective
Related courses—Chemistry 11, 12, 13
Physics 20, 21, 22
Minor—10, 11, 12, and 12 hours elective

Chemistry:

Major—11, 12, 13, 21, 23, 24, 26, 27, 28, 41, 42, 43
Related courses—Mathematics 10, 11, 12
Biology 10, 11, 12
Physics 20, 21, 22
Minor: 11, 12, 13, 21, 23, 26

Commerce:

Major—(Nonprofessional) 5, 10, 11, 12, 14a, 14b, 15a, 15b, 17, 20a, 20b, 23, 28, 29, 32, 38, 39a, 39b, 39c, 40, 41, 49a, 49b, 49c, and 10 hours elective

English:

Major—10a, 10b, 10c, 12 or 23, 21a, 21b, 21c, 30a, 30b, 32a or 32b, 36, 37a or 37b, 47, three courses from the following: 22, 33, 34a or 34b, 35a or 35b, one course from the following: 42, 43, 44, 45, and electives to total 42 hours exclusive of freshman English
Related courses—Foreign language 8 to 16 hours
Minor—(Literature) 10a, 10b, 10c, 12 or 23 or 26, 21a, 21b, 21c, 30a, 30b or 20a or 20b, 6 hours from the following: 32a, 32b, 36, 37a, 37b, 4 hours from the following: 22, 33, 34a, 34b, 35a, 35b, one course from the following: 42, 43, 44, 45 (Speech and Dramatics) 10a, 10b, 10c, 12, 21a, 21b, 21c, 23, 25 or 46, 27a, 27b, 31, 32a or 32b, 33, 38a or 38b

French:

Minor—11, 12, 21, 22, 31, 32, 41, 42

Geography and Geology:

Major—10, 22, 32, 33 or 41 or 43, 40, Geog. 20 or Geol. 20, and 12 hours elective
Minor—10, Geog. 20 or Geol. 20, 22 or 32, 40, 8 hours elective

Health and Physical Education:

Major—(Courses for men and women) Health 10a, 20, 26, 32
Additional courses for men: Physical Education 11, 20, 21, 24 or 39, 26, 34, 36, 37, 40, 42, 46
Additional courses for women: Physical Education 11, 20, 21, 25, 27, 30, 34, 36, 38, 40, 46 and 2 hours elective
Related courses—Biology 10, 11, 12, 25, 29

Minor—(Courses for men and women) Health 10a, 20, 26
Additional courses for men: Physical Education 11, 20, 21, 26, 34, 37, 42
Additional courses for women: Physical Education 11, 20, 21, 25, 27, 30, 34, 38

History:

Major—10, 11, 20, 21, 22, 30, 31, 8 hours elective
Minor—10, 11, 20, 21, 22, 30 or 31

Home Economics:

Major—(Non-Vocational) 10, 11, 12, 20, 21, 22, 23, 24, 30, 35, 40, 41

Industrial Arts:

Major—10, 11, 13, 15, 20, 21, 26, 31, 34, 35, 36, 37, 46, 8 hours elective
Related courses—Art 10, 6 hours elective
Chemistry 11, 12, 13, or Physics 20, 21, 22
Mathematics 10, 11, 12

Latin:

Major—The student must offer at least 36 quarter hours
Minor—The student must offer at least 24 quarter hours

Mathematics:

Major—10, 11, 12, 21, 22, 23, 32, 46, two courses from the following: 30, 31, 33, 34, 41, 42
Related courses: Physics 20, 21, 22
Minor—10, 11, 12, 21, 22, 23

Music:

Major—10a, 10b, 10c, 11a, 11b, 11c, 12a, 12b, 12c, 16a, 16b, 16c, 18, 20 (three quarters), 4 hours Band, Glee Club, and Orchestra, 27, 28a, 28b, 28c, 29a, 29b, 29c, 34, 37a, 37b, 37c, 38a, 38b, 38c, 39a, 39b, 39c, 41, 42
Minor—18, 27, 29a, 29b, 29c, 34, 41, and electives to make a total of 24 hours

Physics:

Major—17, 20, 21, 22, 23, 32, 33, 34a, 34b, 40, and 4 hours elective
Related courses—Biology 10, 11, 12
Chemistry 11, 12, 13
Mathematics 10, 11, 12, 21, 22, 23, 32

Minor—17, 20, 21, 22, 23, 34a, and 6 hours elective

Social Science:

Major—Government 10, 11
History 10, 11, 20, 21, 22, 30, 31, and 8 hours elective
Sociology 30

Spanish:

Minor—11, 12, 21, 22, 31, 32, 41, 42

SPECIFIC REQUIREMENTS FOR NONPROFESSIONAL DEGREES

The college offers a general education curriculum for students who are not interested in professional education and for students who expect to prepare to enter the professions of medicine, law, engineering, and the like. A special curriculum is also offered in commerce to meet the needs of those students who desire to prepare for careers in the field of business and industry. The nonprofessional curricula do not prepare students to enter the profession of teaching.

CURRICULUM IN GENERAL EDUCATION

This curriculum is planned to meet the needs of those wishing to secure a general education without preparing to teach. The work may be planned to meet the requirements for admission to professional schools of medicine, dentistry, and law. This curriculum should be planned and approved by the Dean before the end of the freshman year. Education courses cannot be counted toward meeting the requirements in this curriculum.

The Minimum Requirements Are:

English 10a, 10b, 10c, 21a, 21b, 21c, 12 or 23 or 30a and 30b	22 hrs.
History 10, 11	8 hrs.
Library Science 10	1 hr.
Physical Education 10 (six quarters)	3 hrs.
Science (General Science, Biology, Chemistry, or Physics)	12 hrs.
Sociology 10	1 hr.
Two majors of thirty-six hours each, or an area of seventy-two hours	72 hrs.
Two minors of sixteen hours each	32 hrs.
Electives	46 hrs.

Majors and minors may be selected from the following departments:

Agriculture	Chemistry
Art	Commerce
Biology	English

French
Geography and Geology
Health and Physical Education
History
Home Economics (Non-Vocational)
Industrial Arts
Latin
Mathematics
Music
Physics
Science
Social Science
Spanish

REQUIREMENTS FOR CERTIFICATES

ELEMENTARY CERTIFICATES

An Elementary Certificate Is Valid for Use in Any Elementary School in the State

The Provisional Elementary Certificate valid for three years shall be issued to a person who meets the general requirements of law and the regulations of the State Board of Education and files a transcript of standard college credits showing the completion of the following curriculum:

General and Special Preparation

English, including	
Oral and Written Composition	8 hrs.
American or English Literature	4 hrs.
Children's Literature	4 hrs.
Science, selected from	
Biology, Chemistry, General Science, Geology, Physics	8 hrs.
Social Science, including	
American History and Government or History of Civilization	8 hrs.
Geography, Principles	4 hrs.
Teachers' Arithmetic	4 hrs.
Public School Art	3 hrs.
Public School Music	3 hrs.
Health, Physical Education and Safety	6 hrs.

Professional Preparation

General or Educational Psychology	4 hrs.
Fundamentals of Elementary Education	6 hrs.
Supervised Student Teaching	4 hrs.
Teaching Reading	4 hrs.
Elective in Elementary Education	4 hrs.
General Electives	22 hrs.

Suggested Program for Completing the Curriculum for the Provisional Elementary Certificate at Eastern

FIRST YEAR

First Quarter

English 10a—Spoken and Written Communication I	3	hrs.
Geography 10—Principles of Geography	4	hrs.
History 10—History of Western Civilization	4	hrs.
Library Science 10—Library Orientation	1	hr.

Physical Education 10—Fundamental Physical Education Activities	½ hr.
Science 10—Survey of Science I	4 hrs.
Sociology 10—College Orientation	1 hr.
	17½ hrs.

Second Quarter

English 10b—Spoken and Written Communication II	3 hrs.
History 11—History of Western Civilization	4 hrs.
Physical Education 10—Fundamental Physical Education Activities	½ hr.
Science 11—Survey of Science II	4 hrs.
Sociology 14—Rural Sociology	4 hrs.
	15½ hrs.

Third Quarter

Education 20—Principles of Teaching	4 hrs.
English 10c—Spoken and Written Communication III	3 hrs.
Government 10—American Government	4 hrs.
Physical Education 10—Fundamental Physical Education Activities	½ hr.
Science 12—Survey of Science III	4 hrs.
	15½ hrs.

SECOND YEAR

First Quarter

Art 26—Public School Art	4 hrs.
Education 21—Human Development and Psychology	4 hrs.
English 21a—Survey of Literature I	3 hrs.
Mathematics 26—Teachers' Arithmetic	4 hrs.
Physical Education 10—Fundamental Physical Education Activities	½ hr.
Physical Education 20—Plays and Games for the Elementary Grades	2 hrs.
	17½ hrs.

Second Quarter

Education 22—Reading in the Elementary School	4 hrs.
English 21b—Survey of Literature II	3 hrs.
Health 26—Public Hygiene and Safety	4 hrs.
Music 25a-b—Public School Music	4 hrs.
Physical Education 10—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Third Quarter

Education 26—Directed Observation and Participation in the Elementary School	8	hrs.
English 24—Literature for Children	4	hrs.
Physical Education 10—Fundamental Physical Education Activities	½	hr.
Electives	5	hrs.
	17½	hrs.

Standard Elementary Certificate.—The standard elementary certificate, valid for four years, shall be issued to a person who completes the four-year curriculum for a major in elementary education. This certificate may be re-issued or renewed every four years after three years of teaching experience during the life of the certificate or upon the presentation of one-half year of standard college or university work of graduate grade. The standard elementary certificate may be extended for life upon the presentation of evidence that the holder has had three years of teaching experience in the elementary field during the life of the certificate and has completed the requirements for the master's degree in a standard college or university.

HIGH SCHOOL CERTIFICATES

A high school certificate is valid for use in any high school in the State

Provisional High School Certificate.—The provisional high school certificate, valid for four years, shall be issued to a person who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of high school teachers. This certificate may be re-issued or renewed every four years after three years of teaching experience during the life of the certificate or upon the presentation of one-half year of standard college or university work of graduate grade earned during the life of the certificate.

Standard High School Certificate.—The standard high school certificate, valid for five years, shall be issued to a person who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of high school teachers and who, in addition thereto, has completed the requirements for the master's degree in a standard college or university.

CERTIFICATES IN ADMINISTRATION AND SUPERVISION

Certificates in administration and supervision are valid for use in any position of superintendent, principal, supervisor, teacher, or attendance officer.

Provisional Certificate in Administration and Supervision.—The provisional certificate in administration and supervision, valid for four years, shall be issued to a person who has had at least two years of successful teaching experience and who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of administrators and supervisors. The curriculum for the training of administrators and supervisors shall include in addition to the requirements for the training of elementary or high school teachers the following professional courses:

Administration and Supervision:

Public School Administration and Supervision	4 hrs.
Administration and Supervision of the Elementary School	4 hrs.
High School Administration and Supervision	4 hrs.
Elementary Education	8 hrs.
Supervised Student Teaching	8 hrs.
Secondary Education	8 hrs.

This certificate may be re-issued or renewed every four years after three years of experience during the life of the certificate or upon the presentation of one-half year of standard college or university work of graduate grade.

Standard Certificate in Administration and Supervision.—The standard certificate in administration and supervision, valid for five years, shall be issued to a person who has had at least two years of successful teaching experience and who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of administrators or supervisors, and who, in addition thereto, has completed the requirements for the master's degree. The standard certificate in administration and supervision may be extended for life upon presentation of evidence that the holder has had three years of successful experience during the life of the certificate.

ATTENDANCE OFFICER'S CERTIFICATE

The certificate for attendance officers shall be issued to any person who completes a four-year curriculum for a teacher's certificate provided such curriculum includes at least four quarter hours of pupil accounting.

THE GRADUATE DIVISION

PURPOSE

The Graduate Division offers work leading to the degree of Master of Arts in Education. The graduate program is planned to meet the needs of teachers, supervisors, and administrators of the public schools. The **major** field in the graduate program is that of professional education. Minors are offered in the departments of agriculture, art, biology, chemistry, commerce, English, French, geography, health and physical education, history, home economics, industrial arts, Latin, mathematics, music, physics, and political science. Two types of graduate students are recognized: (1) Students who enter and become candidates for the degree of Master of Arts in Education; and (2) students who wish to broaden their education without reference to a graduate degree.

ADMISSION REQUIREMENTS

(1) Applicants for admission to the Graduate Division must hold a Bachelor's degree from a standard institution and must have completed the requirements for a four-year curriculum for the education of elementary and/or secondary teachers, as prescribed by the Council on Public Higher Education in Kentucky.

(2) Official credentials should be filed with the Registrar of the college before entrance. These credentials should include: (a) A complete transcript of high school credits; (b) a complete transcript of college or university credits.

(3) Transferred credits shall not be used to reduce either the resident requirements or minimum number of quarter hours required.

(4) Admission to the Graduate Division does not necessarily imply admission to candidacy for the degree of Master of Arts in Education.

ADMISSION TO CANDIDACY FOR THE MASTER OF ARTS DEGREE IN EDUCATION

Application for admission to candidacy for the degree of Master of Arts in Education should be made to the Dean of the college not later than the tenth week prior to the date on which the degree is to be conferred.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATION

To complete the work for the degree of Master of Arts in Education, the candidate must satisfy the following requirements:

(1) The student must complete thirty-six weeks, or the equivalent, in residence and earn a minimum of forty-five quarter hours and write a thesis in the major field. Upon the recommendation of the major and minor professors, the thesis requirement may be waived provided the student completes forty-eight weeks in residence and a minimum of fifty-four quarter hours of credit.

(2) At least 50 per cent of all course work must be in courses open to graduate students only. The remainder of the work may be completed in upper division courses.

(3) The student shall have an average standing of 2.0 and no credit shall be granted for a grade below "C."

(4) The student must complete a major in the field of education. A major shall require a minimum of eighteen quarter hours of course work in addition to a thesis in the major field. The thesis should show, among other things, the following characteristics: (a) Ability of candidate to work independently on an approved problem; (b) a reasonably wide familiarity with the literature of the field of specialization; (c) a practical working knowledge of research methods; and (d) conclusions justified by supporting data.

(5) The student must complete a minor. The minor shall be determined by the institution in terms of the student's need, provided that the minor, or minors, shall be in upper division and/or graduate courses.

(6) The student shall pass both an oral and written examination on his major and minor fields.

(7) The student must present a thesis at least three weeks before the degree is to be conferred. The thesis must be approved by the major and minor professors and by the Dean of the college and must conform to regulations approved by the graduate committee for writing theses. Two typewritten copies of the thesis must be filed in the college library at least one week before the degree is conferred.

(8) Formal application for the degree of Master of Arts in Education must be filed with the Registrar not later than eight weeks before the degree is to be conferred.

AGRICULTURE

LOWER DIVISION COURSES

Agriculture 11. Farm Poultry. **Four hours.**

Breeds; poultry houses; balanced rations; poultry diseases; egg production; culling; meat production; parasites; grading and marketing of poultry produce.

Agriculture 12. General Horticulture. **Four hours.**

The farm garden and orchard small fruits; hot bed and cold frame management; vegetable storage; garden planning; seed selections; etc.

Agriculture 20. Farm Crops. **Four hours.**

Cereal and forage crops; pasture management; weed control; crop rotation; seed testing; inoculation; tillage; tillage tools and implements.

Agriculture 21. Market Milk. **Four hours.**

Milk as a food; market milk; milk sanitation; dairy inspection; bacteriology of milk; scoring milk and cream; laboratory tests for various dairy products production costs; pasteurization; refrigeration; etc.

Agriculture 22. Dairy Cattle Management. **Four hours.**

Dairy breeds; judging; feeding; calf raising; pedigrees; production testing; dairy barn construction; equipment; etc.

Agriculture 23. Farm Shop. **Two hours.**

Care and maintenance of farm machinery; farm repairs; soldering; pipe cutting; farm gates; etc.

Agriculture 24. Farm Engineering. **Four hours.**

Drainage; terracing; farm surveying; farm planning; farm buildings; concrete work; farm fences.

Agriculture 25. Farm Livestock Production. **Four hours.**

Importance and use of livestock products; present types, market classes and grades of beef cattle, sheep, swine, horses and mules; the origin, development, and characteristics of the more important breeds.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Agriculture 30. Soils. **Four hours.**

Prerequisites: Chemistry 11 and 12.

Soil composition; soil conservation; soil microorganisms; humus; soil water; soil minerals; lime; commercial fertilizers; soil analysis; soil erosion; etc.

Agriculture 31. Feeds and Feeding. **Four hours.**

Prerequisite: Chemistry 11 and 12.

Origin and composition of livestock feeds; digestion and assimilation; balanced rations; minerals; feed costs; feeding young animals; feeding growing animals; finished feeding; etc.

Agriculture 32. Farm Management and Organization. **Two hours.**

Personal characteristics desirable to successful farming; cost of production; living costs; profits; types of farming; soil productivity; livestock problems; farm labor; farm rent; farm equipment; farm layout.

Agriculture 33. Farm Accounting. **Four hours.**

The fundamental principles of accounting applied to farm accounts; double entry bookkeeping; financial statements; operating statements; inventories; depreciation; production costs; etc.

Agriculture 40. Dairy Bacteriology. **Four hours.**

Prerequisite: Health 21.

Microorganisms in dairy products; bacterial control; use of starters; sanitary analysis of milk and dairy products; etc.

Agriculture 41. Agricultural Economics and Marketing. **Four hours.**

The principles of economics and marketing as applied to agriculture; a study of the argicultural industry from historic, geographic and economic approaches.

Agriculture 42. Agricultural Journalism. **Four hours.**

Advertisements; sales letters; news letters; minute recording; feature articles; survey of agricultural journals; editorial writing.

Practicums. One hour.

Prerequisite: A course to which the practicum applies.

ART

LOWER DIVISION COURSES

Art 10. Elementary Drawing and Design. **Four hours.**

Introductory contact with the nature and practice of art and with basic knowledges and skills in drawing, design and color; an essential foundation course for the art student, the home economics major, and the elementary education major. Media: Pencil, tempera, water color, and crayons.

Art 11. Art Media. **Four hours.**

Prerequisite: Art 10.

Designed to meet individual needs and abilities in a variety of art media; problems in figure drawing and painting; charcoal, pen and ink, pastel, water color, tempera, colored chalk, pencil, and oils.

Art 20. Drawing, Painting, and Composition. **Four hours.**

Prerequisite: Art 10.

Technical skill and creative ability in the use of charcoal, pastels, oils, and water colors; study of still life; out-door sketching; figure composition; artistic anatomy.

Art 21. Drawing and Modeling. **Four hours.**

Prerequisite: Art 10.

Practice in drawing and painting from the view of expressing form; use of clay for the development of a stronger sense of form; objects molded by hand and on the potter's wheel.

Art 22. Art Appreciation: Orientation. **Two hours.**

Interpretation of the visual and space arts for the purpose of establishing a basis for judgment and good taste in art expression.

Art 23. Lettering and Poster Design. **Two hours.**

Development of ability to apply art principles in the production of hand lettering and effective posters; lettering structure; spacing; poster design.

Art 24. Problems in Interior Design. **Two hours.**

Prerequisite: Art 10.

A survey of the principles of design in all interiors with emphasis on the house, its interior and exterior; art elements—color form, line, and texture in furniture and furnishings; finishes; problems in house plans and blueprint reading.

Art 25. Fashion Illustrations. **Two hours.**

Principles of design in costume; problems designed to enable the student to acquire the ability to represent the costume in different art media and to help him understand technical problems of fashion illustration; commercial layouts.

Art 26. Public School Art. **Four hours.**

Lettering, design, color, and construction work in the elementary school; art problems based on content essentials; integration of art with the subject matter of the general curriculum.

Art 27. Applied Design. **Four hours.**

Craftsmanship in the use of design as applied to functional objects: Stenciling, linoleum cuts, leather tooling, book making, weaving, enameling, needlework, and soap carving.

Art 28. Advanced Applied Design. **Four hours.**

Prerequisite: Art 27.

This course emphasizes design in weaving, advanced leather tooling, etching, and linoleum block printing. Rugs and table mats are woven from waste and commercial materials on the various looms, such as card, tack, and large two and four heddle types.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Art 30. Drawing and Illustration. **Four hours.**

Prerequisite: Art 10.

Creative skill in drawing and illustration of ideas; specific study of perspective; pictorial composition; illustration of stories and murals in black and white, and in color.

Art 31. Color and Design. **Four hours.**

Prerequisite: Art 10.

Technical practice in design; decorative rendering; practice in the making of folders; packaging; advertisements; posters; color theory.

Art 33. Art Application: Survey. **Four hours.**

A survey of architecture, sculpture, painting, and the minor arts; art of the Near East; classical art; medieval art; Renaissance art; post-Renaissance art; art in the United States; primitive art; Oriental art.

Art 36. Art Education in the Elementary School. **Four hours.**

Prerequisites: Art 10 and 26.

Designed to give teachers a knowledge of theories and practice of art in their school problems and to give opportunity to work out art projects in the various art media unit planning; materials and methods.

Art 40. Advanced Drawing, Painting, and Design. **Four hours.**
Prerequisite: Art 30.

Advanced practice in drawing, painting, and design; research in artist's media.

Art 41. Advanced Drawing, Painting, and Design. **Four hours.**
Prerequisite: Art 30.

Painting from nature; field trips; studio criticism; creative design problems; figure compositions in selected media.

Art 42. Art Appreciation: Architecture and Sculpture. **Four hours.**

Prerequisite: Art 33.

Achievements in architecture and sculpture of the following periods: Prehistoric, preclassical, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Renaissance, post-Renaissance, and Modern.

Art 43. Art Appreciation: Painting. **Four hours.**
Prerequisite: Art 33.

Great periods and masters of art: Italian, Flemish, German, Spanish, Dutch, English, French, and American.

Art 46. Art Education in the Secondary School. **Two hours.**
Prerequisite: Art 10.

Methods of teaching art education in the secondary school.

BIOLOGY

LOWER DIVISION COURSES

Biology 10. General Biology I. **Four hours.** Fee, $1.00.

Methods of science; characteristics of living things; the cell, the unit of life; the physical basis of life; the thallus plant; bacteria; liverworts and mosses; ferns and their relatives; alternation of generations and its significance; the gymnosperms; the angiosperms; roots, stems, and leaves of seed plants; plant physiology; evolution in the plant kingdom; economic importance of plants.

Biology 11. General Biology II. **Four hours.** Fee, $1.00.
Prerequisite: Biology 10.

Unicellular animals; sponges; coelenterates; flat worms; round worms; segmented worms; arthropods; echinoderms; mollusks; chordates.

Biology 12. General Biology III. **Four hours.** Fee, $1.00.
Prerequisite: Biology 11.

Anatomy and physiology of the frog and man; external features; skeleton; muscles; body cavity; digestive system; res-

piratory system; excretor system; metabolism; circulatory system; nervous system; sense organs; endocrines; reproduction; embryology; heredity; evolution; early man.

Biology 20. Botany I. **Four hours.** Fee. $1.00.

Prerequisite: Biology 12.

Cell structure, functions and growth; anatomy; histology, general psysiology and economics of roots, stems and leaves of vascular plants.

Biology 21. Botany II. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

Anatomy, histology and general physiology of flowers, fruits, and seeds; economic applications of plant science including forestry, conservation, agriculture, plant breeding and plant diseases; history of botany.

Biology 25. Applied Anatomy and Physiology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

The anatomy of the human body with emphasis on the skeleton, muscles and the nervous system and their function in physical exercise.

Biology 26. Nature Study. **Four hours.** Fee, $1.00.

Open only to majors in Elementary Education.

Animal life, including a study of birds, fish, reptiles, mammals and insects; plant life, including wild flowers, cultivated flowers, flowerless plants and tree study; elementary studies of the earth and sky, including soil, weather, stars and constellations; proper methods of correlating such information with the subjects of health, geography, drawing, history, and arithmetic.

Biology 27. Comparative Anatomy I. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

Vertebrate characteristics; classification of vertebates; comparative anatomy of the integument, skeleton, muscles, digestive and circulatory systems; emphasis on the anatomy of a lower chordate, fish, reptile and bird.

Biology 28. Comparative Anatomy II. **Four hours.** Fee, $1.00.

Prerequisite: Biology 27.

Comparative anatomy of the respiratory, excretory, reproductive, endocrine, nervous and sensory systems; emphasis on the anatomy of a cat and the human body.

Biology 29. Human Physiology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

The general physiology of metabolic processes with special attention given to digestion, circulation, respiration and excretion.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Biology 30. Local Flora. **Two hours.** Fee, $1.00.

Taxonomy; nomenclature; identification of spring flowers; relationships of the common families of plants; methods of making an herbarium.

Biology 31. Dendrology. **Two hours.** Fee, $1.00.

Systems of classification; nomenclature; available keys and manuals; identification of trees and shrubs on the basis of leaf characters and on the basis of twig-trunk characters.

Biology 32. Plant Physiology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 20.

Principles of growth; nutrition; metabolism and movement in plants; influence of physical and biotic environments on plant growth.

Biology 35. Genetics. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

Mendel and Mendel's laws; recent workers including T. H. Morgan; chromosome theory of heredity; linkage; crossing over; interference; biometrics; race betterment; race deterioration.

Biology 37. Economic Entomology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

Taxonomy of insects; anatomy and physiology of insects; life histories; economic importance; methods of control; collection of important economic insects.

Biology 38. Ornithology. **Two hours.** Fee, $1.00.

Classification and identification of birds; field trips; bird banding, migration and refuges; foods of birds; economic importance of birds.

Biology 44. Invertebrate Zoology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

Protozoa; porifera; coelenterata; ctenophora; platyhelminthes; nemathelminthes; annelida; echinodermata; mollusca arthropoda; characteristics, life histories, structures, and ecology with a discussion of their evolution.

Biology 45. Parasitology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 12.

Protozoa-Sarcodina (amoebic dysentery); Mastigophora (Trypanosames); Spirocheatacea; Infusoria; Sporozoa, including various types of malaria; Platyhelminthes (flukes and tapes); Nemathelminthes (ascaris, hook worm, trichina, whip work, elephantiasis, guinea worm, etc.); prevalence of parasitic worms and remedial measures; animal parasites among Mullusca, Annelida, and Arthropoda; Archnida (mites and ticks); Arthropoda (lice, bed bugs, fleas, flies, mosquitoes); poisonous animals.

Biology 47. Embryology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 28.

Complete study of the embryology of the starfish, frog, and chicken, with considerable work on mammalian embryology.

Biology 48. Animal Physiology. **Four hours.** Fee, $1.00.

Prerequisite: Biology 28.

Detailed studies on the chemistry and physics of muscles, respiration, reproduction, excretion, nervous system, circulation, and digestion.

Biology 49. Problems in Biology. **Two or four hours.** Fee, $1.00.

Prerequisite: Permission of the instructor.

The individual study of special problems in biology.

CHEMISTRY

LOWER DIVISION COURSES

Chemistry 11. General Chemistry I. **Four hours.** Fee, $1.00.

History of chemistry; chemical nature of matter; preparation and properties of oxygen, hydrogen, and nitrogen; the gas laws; chemistry of water; laws of chemical combinations; explanation of chemical symbolism.

Chemistry 12. General Chemistry II. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 11.

The periodic law; equilibrium; structure of the atom; theory of solutions; the nitrogen family, colloids.

Chemistry 13. General Chemistry III. **Four hours.** Fee, $1.00.

Prerequisites: Chemistry 11 and 12.

Carbon and its compounds; electrochemistry; ceramics; the iron family.

Chemistry 20. Bio-Organic Chemistry. **Four hours.** Fee, $1.00.

Open only to majors in home economics.

Prerequisites: Chemistry 11, 12 and 13.

The organic chemistry of foods; the organic chemistry of digestion; the organic chemistry of metabolism.

Chemistry 21. Qualitative Analysis. **Four hours.** Fee, $1.00.

Prerequisites: Chemistry 11, 12 and 13.

Chemistry of metals; analytical reactions of cations and anions; solutions; ionization; equilibrium; oxidation-reduction; complex-ion formation.

Chemistry 22. Advanced Qualitative Analysis. **Two hours.** Fee, $1.00.

Prerequisite: Chemistry 21.

Analysis of alloys, minerals and other substances; introduction to mineralogy and spectroscopy.

Chemistry 23. Quantitative Analysis, Gravimetric. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 21.

Principles and practices of gravimetric analysis of various

inorganic substances; chemical calculations; equilibrium; solubility product principles; theory of precipitation.

Chemistry 24. Quantitative Analysis, Volumetric. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 21.

Principles and practices of volumetric analysis of various inorganic substances; acid-base titration; oxidation-reduction titrations; precipitation titrations; theory of acids and bases; theory of oxidation and reduction; calculations of volumetric analysis.

Chemistry 25. Advanced Quantitative Analysis. **Four hours.** Fee, $1.00.

Prerequisites: Chemistry 23 and 24.

Analysis of ores; potentiometric titrations; colorimetric determinations; polariscopic determinations; gas analysis; combustion train.

Chemistry 26. Organic Chemistry. **Four hours.** Fee, $1.00.

Prerequisites: Chemistry 11, 12 and 13.

The methane series and their derivatives; the ethylene series and their derivatives; the acetylene series and their derivatives.

Chemistry 27. Organic Chemistry. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 26.

Homocyclic hydrocarbons and their derivatives.

Chemistry 28. Advanced Organic Chemistry. **Four hours.** Fee, $1.00.

Prerequisites: Chemistry 26 and 27.

Heterocyclic compounds and their derivatives; dyes, drugs, theory of color.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Chemistry 33. Food Chemistry. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 20 (for home economics students).

The chemistry of glucids; the chemistry of fats; the chemistry of proteins; vitaminology; the energetics of foods.

Chemistry 34. Biochemistry. **Four hours.** Fee, $1.00.

Prerequisites: Chemistry 20 and 33.

The chemistry of digestion, chemistry of metabolism; blood analysis; urine analysis.

Chemistry 41. Physical Chemistry. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 23.

Properties of gases, liquids and solids; physical properties and molecular structure; first law of thermodynamics; heat capacity; thermochemistry; second law of thermodynamics; solutions.

Chemistry 42. Physical Chemistry. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 41.

Colloids; chemical equilibrium; phase rule; reaction rates; activation of molecules; catalysis.

Chemistry 43. Physical Chemistry. **Four hours.** Fee, $1.00.

Prerequisite: Chemistry 42.

Electrical conductance; electromotive force; ionic equilibria; chemical thermodynamics; atomic structure; nuclear structure.

COMMERCE

LOWER DIVISION COURSES

Commerce 5. Penmanship. **No credit.**

Characteristics of good handwriting; illustrations of good handwriting; methods of teaching handwriting; practice in developing desirable skills in executing legible handwriting.

Commerce 10. Elementary Accounting. **Four hours.**

The accounting equation; the balance sheet; the profit and loss statement; books of original entry; the ledger; adjusting and closing entries; controlling accounts; promissory notes; interest; discount; analysis of financial statements; valuation accounts; accrued and deferred items.

Commerce 11. Principles of Accounting. **Four hours.**

Vouchers; partnership accounting. A laboratory set of books is kept.

Commerce 12. Principles of Accounting. **Four hours.**

Corporation accounting; personal accounting; introduction to cost, departmental, manufacturing, and branch accounting. A laboratory set of books is kept.

Commerce 14a. Business Mathematics I. **Two hours.**

Rapid calculation in the fundamental processes; drawings and graphs; percentage; buying and selling merchandise; commercial discounts; recording purchases and sales; paying for goods; collecting bills; accounts; fractions; aliquot parts; decimal fractions; pay rolls; interest.

Commerce 14b. Business Mathematics II. **Two hours.**

Installment buying; bank discount; partial payments; profit and loss; commission and brokerage; marked price; taxes; insurance; stocks; bonds; civil service problems.

Commerce 15a. Beginning Typewriting. **Two hours.** Fee, $1.00.

Correct writing technique; knowledge and care of the machine; personal typing problems.

Commerce 15b. Intermediate Typewriting. **Two hours.** Fee, $1.00.

Prerequisite: Commerce 15a or its equivalent.

Speed and accuracy drills; business letters; use of carbon paper; tabulating; term papers and notebooks; stencils.

Commerce 16a. Office Practice. **Two hours.** Fee, $1.00.

Prerequisite: Commerce 15b or its equivalent.

Speed building; business papers; rough drafts; manuscripts; reports; use of office machines.

Commerce 16b. Office Practice. **Two hours.** Fee, $1.00.

Continuation of Commerce 16a.

Commerce 17. Economic History of Europe. **Four hours.**

The history of the development of agriculture, commerce, transportation, industry, labor legislation, socialism, social insurance, population and population trends, and finance in the principal European nations.

Commerce 18. Filing. **One hour.**

Principles and practices of alphabetic, numeric, subject, and geographic filing.

Commerce 20a. Principles of Accounting—Advanced. **Four hours.**

The accounting process illustrated; statements from incomplete data; cash and receivables; inventories; investments; fixed assets; deferred charges; liabilities; capital stock; surplus; installment sales; errors and their correction; statement of application of funds.

Commerce 20b. Principles of Accounting—Advanced.

Analysis of financial statements; partnership formation and operation; partnership dissolution and liquidation; joint ventures; consignments; agency and branch accounts; corporate combination and consolidated balance sheet; consolidated statement of profit and loss; statement of affairs; receivership accounts and statements.

Commerce 21. Office Machine Practice. **Two hours.**

Prerequisite: Commerce 15b.

Mimeograph; mimeoscope; transcribing machine; calculating machine; ditto.

Commerce 23. Business English. **Four hours.**

Editing and writing of business letters and reports.

Commerce 26. Consumer Economics. **Four hours.**

The role of consumers in economic life; consumers' choice; who guides consumers; freedom of choice; custom-made wants; choosing goods for display; fashion-made wants; imitative wants; producer-made wants; the profitable practice of fraud; price appeal; making it easy to buy; consumer education; planning expenditures; intelligent buying; co-operative buying; buying protection; buying shelter; buying investments; producer aids to consumers; standards of consumers; governmental aids to consumers.

Commerce 27a. Beginning Shorthand. **Four hours.**

Prerequisite: Commerce 15a or its equivalent.

Principles of Gregg shorthand taught by modified functional method; dictation and transcription.

Commerce 27b. Intermediate Shorthand. **Four hours.**
Continuation of Commerce 27a.

Commerce 27c. Advanced Shorthand. **Four hours.**
Prerequisite: Commerce 23.
Continuation of 27b. Introduction to transcription of shorthand notes on the typewriter.

Commerce 27d. Dictation and Transcription. **Four hours.**
Prerequisite: Commerce 27c.
Building shorthand vocabulary; dictation and transcription.

Commerce 27e. Secretarial Practice. **Four hours.**
Dictation and transcription; study of secretarial traits and duties; office experience.

Commerce 28. Principles of Economics. **Four hours.**
Industry and economics; production and related concepts; specialization; competition; cooperation; the time-consuming production process; combining the agents of production; the organization of the business enterprise; risk in industry, the monetary system; the banking system; the fluctuating price level; monetary aspects of economic balance; the business cycle.

Commerce 29. Value and distribution. **Four hours.**
Individual prices; the background of demand and supply; prices under pure and monopolistic competition; interrelated prices and the price system; the mechanism of international trade; the economy of international trade; the share of income; the wages of labor; interest; income from land; the profits of the business enterprises.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Commerce 30. Cost Accounting. **Four hours.**
Profit; surplus; dividend; classification of costs; process and specific order; use of cost records; perpetual inventories; materials; labor costs; manufacturing expenses; distribution of service department costs; distribution of manufacturing expense of production; the cost to make and sell; estimating cost systems; establishment of standard costs; the use of standard costs; some legal phases of cost accounting. A set of books dealing with cost accounting will be kept.

Commerce 31. Income Tax Accounting. **Four hours.**
Income tax legislation—Federal and State; returns for individuals; exempt income of individuals; deductions allowed individuals; computation of individual taxes; returns for corporations; accounting procedure; administrative procedure; the capital stock

tax; the excess profits tax; the estate tax; the gift tax; excise taxes. Students will have experience filling out income tax return forms.

Commerce 32. Business Organization. **Four hours.**

Prerequisite: Commerce 28.

Classes of business organization, their evolution, and the tests of efficiency; individual entrepreneur organization; partnership; corporation; joint-stock company; business trusts; simple agreements and price combinations; pools; combination trusts; community-of-interest organization; holding company; amalgamations; mergers; promotion; underwriting; stock exchanges; reorganizations and receiverships; legislation.

Commerce 33. American Economic History. **Four hours.**

Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems, and agriculture in the United States.

Commerce 34. Mathematics of Finance. **Four hours.**

Bank discount; true discount and present value; exact interest; logarithms; equation of accounts; domestic and foreign exchange; series annuities; bond valuation; business graphs; cumulative annuities; cumulative sinking funds; cumulative amortization plans; building and loan association calculations; industrial loans.

Commerce 35. Salesmanship. **Four hours.**

The art of selling; the motive behind all buying; the customer's mental journey; attitudes of buyer and salesman; preparation of the selling talk; the pre-approach; the interview; arousing interest; creating desire; answering objections; meeting excuses; diplomacy of the close; types of customers.

Commerce 36a. Methods of Teaching Stenography. **Four hours.**

This course is a prerequisite to student teaching in commerce.

Survey of modern methods of teaching Gregg shorthand, typewriting, and secretarial practice; psychology of skill development; lesson planning and presentation; observation of classroom procedures; supplies and equipment; development of skill in writing shorthand on the blackboard.

Commerce 36b. Methods of Teaching Bookkeeping, Accounting, and General Business. **Four hours.**

This course is a prerequiste to student teaching in commerce.

Objectives in giving bookkeeping, accounting, and general business courses; textbooks suitable for use; supplementary material; methods of approach; how to teach certain phases of our financial life; communication; travel and transportation; buying and selling; the work at the end of a fiscal period for bookkeepers and accountants, including accrued and deferred items, adjusting entries, working sheets, financial statements, closing entries; suitable examinations.

Commerce 37. Advertising. **Four hours.**

The specific purpose of advertising; developing the copy; slogans; trademarks; layouts; engraving; scheduling of advertisements in newspapers and magazines; direct mail advertising; outdoor advertising; dealer display advertising; economic aspects of advertising; federal laws affecting advertising.

Commerce 38. Money and Banking. **Four hours.**

Prerequisite: Commerce 28.

Nature and functions of money; kinds of money; monetary systems; history of banking; functions of the bank; bank administration; the national banking system; deposits and depositors; the clearing house; domestic and foreign exchange; loans and discounts; bank supervision; savings banks; trust companies; foreign banking systems; the federal reserve system.

Commerce 39a. Contemporary Social and Economic Problems. **One hour.**

Required of all juniors majoring in commerce.

Commerce 39b. Contemporary Social and Economic Problems. **One hour.**

A continuation of Commerce 39a. Required of all juniors majoring in commerce.

Commerce 39c. Contemporary Social and Economic Problems. **One hour.**

A continuation of Commerce 39b. Required of all juniors majoring in commerce.

Commerce 40. Business Law. **Four hours.**

Law in general; kinds of law; persons; torts; contracts; agency; personal property; real property.

Commerce 41. Business Law. **Four hours.**

Market transactions; bailments; sales; contracts to sell; practices prejudicial to a competitor; practices prejudicial to the public; legislative regulation of market practice; bills, notes, and checks; stocks and bonds; liens and mortgages; bills of lading and warehouse receipts; contracts of guaranty and suretyship; powers of creditors; privileges of debtors.

Commerce 42. Public Finance and Taxation I. **Two hours.**

Distribution of government burdens; the general property tax; modified property tax; shifting and incidence of taxation; the income tax; death and gift taxes; special problems of taxation.

Commerce 43. Public Finance and Taxation II. **Four hours.**

A continuation of Commerce 42.

Taxes upon business; taxes upon consumption; motor vehicle taxes; the poll tax; social security taxes; the taxation of natural resources; non-tax revenues; the power to tax; tax limitations; inter-governmental relations in taxation; expenditures; state and

federal aid; economy in expenditures; problems of public borrowing; fiscal administration.

Commerce 44. Investments. **Four hours.**

The importance of capital in present-day economic society; classification of securities; analyses of securities; possibilities of investment in different classes of securities; financial institutions; the mechanics of investments; the effect of taxation on investment policies; investment and the business cycle; business forecasting; the determination of an investment policy.

Commerce 45. Marketing. **Four hours.**

Prerequisite: Commerce 28.

Consumer's buying motives; marketing functions and institutions; selling direct to consumer; earlier and simpler types of retail institutions; department stores; mail-order houses; chain stores; agricultural wholesale markets; middlemen of the city agricultural markets; classes and types of wholesalers; raw materials; cooperative marketing; speculation; prices and some price policies; brands and brand policies; ethical aspects of marketing.

Commerce 46. Accounting Problems. **Two hours.**

This is an advanced course in accounting and the contents will be determined to some extent by the needs of the students registering for it. Time will be devoted to accounting systems, municipal accounting, and certain phases of recent legislation affecting accounting.

Commerce 47. Auditing. **Four hours.**

Preliminary arrangements for an audit; general procedure of an audit; the original records; the asset accounts; the liability accounts; operating accounts; the audit report. An auditing problem is worked to illustrate the principles discussed in class.

Commerce 49a. Seminar. **One hour.**

Required of all seniors majoring in commerce.

Commerce 49b. Seminar. **One hour.**

Required of all seniors majoring in commerce.

Commerce 49c. Seminar. **One hour.**

Required of all seniors majoring in commerce.

EDUCATION

LOWER DIVISION COURSES

Education 19a. Elementary School Organization and management. **Four hours.**

Organizing the school; the daily program; school housekeeping; understanding pupils; playground activities and equipment; keeping records and making reports; problems of attendance; school libraries and use of textbooks; teaching the various school

subjects; educative seatwork and supervised study; testing and evaluating results; the teacher's personal, social, and professional qualifications and relationships.

Education 19b. Elementary School Organization and Management. **Four hours.**

Routine activities; school marks and marking systems; pupil classification and promotion; importance of food production and preparation from the standpoint of health and economy; some farm problems every teacher should know something about; landscaping school grounds and farm homes; care of simple household furniture and farm machinery and equipment; selection and care of clothing; home care of the sick.

Education 20. Principles of Teaching. **Four hours.**

Meaning of education; meaning and function of the school; meaning and evidences of learning; purposeful activities; selection and organization of subject matter; various types of class procedure; making assignments; standards for judging teaching.

Education 21. Human Development and Psychology. **Four hours.**

Survey of human development and psychology; heredity and early development; environmental factors in development; the human organism as an energy system; interests, attitudes, and values; emotional development; personality and adjustments of the individual; growth and its implications; social relationships and acculturation; intelligence and other aptitudes; the nature of learning; guidance in learning; transfer of training; thinking, reasoning, and creative activity; aesthetic experience; evaluation of learning; records of development and ways of influencing or guiding individuals.

Education 22. Reading in the Elementary School. **Four hours.**

Objectives of reading in the elementary school; reading in the primary and intermediate grades; the place of oral reading in the grades; individual differences; word difficulties; phonics; measuring reading instruction; motivation; materials of instruction.

Education 26. Directed Observation and Participation in the Elementary School. **Eight hours.**

Observation and participation; problems of lesson planning; daily program; school organization and equipment; class organization; the course of study; curriculum activities; teaching techniques; school sanitation; discipline; playground supervision; community co-operation.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Education 30. The Junior High School. **Two hours.**

Origin, development, and present status of the junior high

school movement; the place of the junior high school in the public school system; the aims, purposes, and objectives of the junior high school; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment of the junior high school.

Education 31. Child Development and Psychology. **Four hours.**

Development before birth; the organism as a dynamic system; the organization of behavior; fundamental training and habits in early childhood; physical growth, motor development, and accepting one's self; diseases of children and their psychological implications; the child in the home and family relationships; the child and his school; peer-culture and class-status effects on the behavior of children; language development; emotional development; behavior difficulties and personality patterns; mental development in children; learning and aesthetic experience; interests of children —play, graphic and musical expression, reading, radio, and the movies; techniques of studying child development and of influencing behavior.

Education 32. Pupil Accounting. **Four hours.**

Relation of attendance to pupil progress; social and economic factors which affect attendance; school census; personnel records. In developing these topics a study will be made of personnel work in typical schools of Kentucky.

Education 34. Adolescent Development and Psychology. **Four hours.**

Physical development; mental development; growth of intelligence; adolescent interests; emotional life; learning and forgetting; moral and religious development; adolescent personality; disturbances of personality; hygiene of adolescence; prediction of adolescent behavior; guidance of adolescent behavior.

Education 36. Fundamentals of Secondary School Methods. **Six hours.**

Graduated approach to responsible room teaching through experiences in study and discussion, organizing materials, directed observation, laboratory work, and gradual participation; development of the American secondary school; experiences in the study of pupil behavior; selection and organization of curriculum experiences; variation in techniques of teaching in different types of learning; learning objectives, interests, methods, and materials in special fields; experiences involving management and co-curricular duties; experiences in human relationship.

Education 39a. Problems of Elementary School Supervision. **Eight hours.**

This course has been designed to provide training for helping teachers in Kentucky. In so far as possible the activities of the course are carried out in a workshop situation. This means that the laboratory approach is utilized in dealing with various prob-

lems. The following topics are treated: objectives and problems of helping teachers; problems involved in getting the school organized and under way; problems of learning in relation to child growth and understanding; analyzing children's difficulties and needs and helping teachers to find ways to overcome these difficulties and to meet these needs; teaching the school subjects with particular emphasis on planning instructional programs in these subjects; selection, organization, and evaluation of subject matter and materials; measurement and evaluation of pupil progress involving the use of standard tests, teacher-made tests, records, and other available means; local, state, regional, and national aids and services available to teachers; observation in the Elementary Training School and in the Rural Demonstration School.

Education 39b. Problems of Elementary School Supervision. **Eight hours.**

Continuation of Education 39a.

The following topics are treated: techniques and functions of supervision; analyzing teachers' problems; planning with teacher groups; use of teachers' meetings, schoolroom visitation, demonstrations, conferences, circular letters, field trips, and other supervisory agencies and techniques; ways and means of developing school and community understanding and cooperation; use of community agencies and resources in the school program; ways and means of developing an understanding of professional organizations and of getting teachers to develop professional attitudes; ways and means of developing an understanding of the total school system and of getting teachers to understand their relation to the total school program; how public schools are organized, financed, and administered; planning county-wide helping teacher programs; observation in the Elementary Training School and in the Rural Demonstration School.

Education 40. Measurement and Evaluation in the Elementary School. **Four hours.**

Growth of measurement and evaluation; types of tests and evaluative procedures; test construction; selecting, giving, scoring, and interpreting tests; tests of intelligence and of special aptitudes; measurement and evaluation in arithmetic, language, spelling, handwriting, the social sciences, art and music, miscellaneous areas, and general achievements; uses of tests and evaluative techniques.

Education 41. Measurement and Evaluation in the Secondary School. **Two hours.**

Growth of measurement and evaluation; types of tests and evaluative procedures; test construction; selecting, giving, scoring, and interpreting tests; tests of intelligence and of special aptitudes; measurement and evaluation in language, mathematics, science,

social studies, special subjects, general achievement, and personality adjustments; uses of tests and evaluative techniques.

Education 42. Administration and Supervision of the Elementary School. **Four hours.**

Aims and objectives of the elementary school; types of elementary school organization; time allotments; attendance; library service; classification and promotion of pupils; health; publicity; special classes; plant; office management; organization for supervision; the principal and his opportunity for leadership.

Education 43. The Elementary School Curriculum. **Four hours.**

Objectives of education in light of society; function of the school; function of the curriculum; the curriculum as related to the objectives of education and to society; criteria for evaluating curricula; need and procedure for curriculum revision and construction.

Education 43a. Problems of Elementary Education. **Four hours.**

This course has been developed in connection with our workshop program of recent years. As the title implies, the course stresses the problems of elementary education with particular emphasis upon the improvement of classroom instruction in elementary schools. The work of the course is functional in character and either grows out of the actual experiences of teachers in the field or is based on real teaching situations in elementary schools. Special attention is given to reading problems, arithmetic problems, nutrition and health education, civic problems, conservation of natural resources, and general problems of elementary education. Desirable instructional materials and teaching procedures are emphasized.

Education 44. Principles of Secondary Education. **Four hours.**

Growth and background of American secondary school; variability and selection of the pupil; aims and functions of secondary education; relation to elementary and higher education; forms of organization; comparison between European and American secondary schools; the rural school; vocational education; trends and methods of curriculum construction; the secondary school offerings; extracurricular activities; guidance and community relationship; vision of secondary education.

Education 45. High School Administration and Supervision. **Four hours.**

Scope and function of administration; administration of the program of studies; the vocational program; the health program; the extracurriculum; the guidance program; the program for individual differences; schedule of classes; personnel and organization; buildings and grounds; equipment and supplies; office standards, procedures, and forms; the school and the community.

Education 46. Supervised Student Teaching. **Sixteen hours.**
Observation, participation, and responsible room teaching; child study with special case study problems and remedial work; development of skills and techniques desirable for good school procedure; the location, collection, and organization of materials for instruction; study of community occupations, resources, social and economic problems; experience in meeting parents, visiting homes, participation in social programs of school and community; experience in directing various kinds of activities including routine school duties, field trips, and extracurricular program; acquaintance with the school organization, school policies, system of records and the like; learning how to maintain desirable pupil-teacher relationship.

Education 47. Public School Administration and Supervision. **Four hours.**
Development of school administration and supervision; school organization and control; functions of administration and supervision; powers, duties, responsibilities, and legal status of the superintendent, the supervisor, and other school officials; the board of education and its work; office administration and management; personnel problems and relationships; the school plant; business administration of schools, problems of pupil transportation; pupil accounting; health, physical education, and safety education; administration of textbooks; school libraries; public relations; records and reports; student activities; organization of the supervisory program; planning and executing programs for the improvement of teaching; measurement and evaluation of teaching; curriculum problems; classroom visitation; conferences with teachers; professional reading; supervisory bulletins; professional organizations; in-service education program, and other agencies and problems connected with the administration and supervision of elementary education.

GRADUATE DIVISION COURSES

Education 50a. School Administration I. **Two hours.**
The state as a fundamental school unit; local units for school control; federal relations to education; duties and powers of the school board; duties and powers of the superintendent; the administration of teacher personnel.

Education 50b. School Administration II. **Two hours.**
The school census; attendance; pupil accounting; records and reports; business administration; preparation and administration of the budget; cost accounting; fiscal control; indebtedness; short term borrowing; bonds; general school law; public relations; school publicity.

Education 50c. School Administration III. **Two hours.**

Selection of school sites; building plans and designs; school building management; maintenance and operation of school plants; purchase and use of school supplies; organization of school libraries; auxiliary agencies.

Education 51a. The Improvement of Instruction in the Elementary School. **Two hours.**

Current problems of instruction; recent trends in instruction; methods for improving instruction in the social studies; practical arts, health education, and other subjects included in the elementary school.

Education 51b. Elementary School Supervision. **Two hours.**

Problems of supervision; current practices in supervision; problems of organizing instruction to meet increasing responsibilities of the school; development of concrete educational problems of members of the group.

Education 51c. Curriculum Problems of the Elementary School. **Two hours.**

Functions of education; criteria for objectives, selection, organization, and measurement of curricula materials; elements for curriculum analysis; curriculum materials; principles of curriculum construction.

Education 52. Human Development and the Psychology of Learning. **Two hours.**

Developmental factors and individual differences; motives, goals, and purposes; arranging the learning situation; problem solving and creative expressions; acquiring skill and information; transfer; the curriculum; social setting for learning; measurement and evaluation of development and learning.

Education 53. Visual Aids in Education. **Two hours.**

Meaning of audio-visual aids; needs for visual aids; philosophy and content of audio-visual education; objects; models; exhibits; museum materials; motion pictures; instructional films; graphic materials.

Education 54a. Personality Development and Adjustment. **Two hours.**

Foundations of personality; human development and personality; the home and personality; the school and personality; the social order and personality; frustration and aggression; conflicts and other maladjustments; the analysis and personality; improving personality; educational implications of the psychology of personality; a case history illustrating the foregoing topics.

Education 54b. Mental Hygiene. **Two hours.**

Development of mental hygiene; origins of behavior; varieties

of maladjustments; techniques of mental hygiene; and applications of positive mental hygiene.

Education 55a. History of Education. **Two hours.**

Brief survey of the history of education in ancient and medieval times with special reference to the contribution of Greece and Rome and Christianity to modern education; educational influences of the Renaissance and the Protestant Reformation; the role of the doctrine of formal discipline; educational influences of Comenius, Rousseau, Pestalozzi, Froebel, and Herbart.

Education 55b. History of Education in the United States. **Two hours.**

Rise and development of public education in the United States with emphasis upon the work of Horace Mann, Henry Barnard, and James G. Carter; sociological, psychological, and scientific movements in education; desirable educational reorganizations; brief study of the history and development of public education in Kentucky.

Education 56. Applied Statistical Methods. **Two hours.**

Need for statistical methods; frequency distributions; class intervals; measures of central tendency; measures of variability; comparison of groups; graphic methods; measures of relative position; normal probability curve; reliability of measures of central tendency and variability; calculating machines; simple correlation; interpretation of statistical data.

Education 57. Educational Sociology. **Two hours.**

Relation of sociology to education; sociological problems and their educational implications; the nature of society; social groups, their classification and functions; problems of the home; social values of play and recreation; educational implications of neighborhood and community; isolation, contact, and social interaction; social forces and their significance in society; problems of the church in a changing civilization; the state, democracy, and education; social evolution of the modern school; social and educational surveys; the sociological determination of educational objectives; the selection of materials of instruction; social elements and values in the curriculum; sociological implications for vocational education and educational guidance; socialization of pupil control and school morale; socialized methods of teaching; socialization of school administration and supervision; essential elements of a socialized educational program.

Education 58a. High School Administration. **Two hours.**

Secondary school organization; the principal; the staff; the pupils; program of students; schedules; community relationships; records and reports; articulation; library; plant; finance; other high school problems.

Education 58b. Curriculum Problems of the Secondary School. **Two hours.**

Aims of the public secondary school; local materials of educational values; use of textbooks; plans for evaluating curriculum procedures; methods of making the high school a more effective agency.

Education 58c The Improvement of Instruction in the Secondary School. **Two hours.**

Qualities of good teaching; techniques of improving instruction; procedures for evaluating classroom teaching; the place of extracurricular activities in the school program; responsibilities of the school with respect to the community.

Education 59a, b, c. Seminar. **One or two hours.**

ENGLISH

LOWER DIVISION COURSES

English 10a. Spoken and Written Communication I. **Three hours.**

Practice in organizing and presenting, both in speaking and in writing, material from the student's experience and observation and from his reading and study. Some practice in more effective reading and listening if ncessary; review where necessary of the mechanics of expression, such as grammar, spelling, diction, punctuation, and sentence structure.

English 10b. Spoken and Written Communication II. **Three hours.**

Prerequisite: English 10a.

Continued practice in organizing and presenting material as written and spoken composition. Longer compositions; paragraph structure and development; word study; acceptable usage in writing and speaking.

English 10c. Spoken and Written Communication III. **Three hours.**

Prerequisites: English 10a and 10b.

Continued practice as in preceding courses; emphasis on reading and analysis; at least one longish investigative paper which employs the elementary principles of research; acceptable usage in writing and speaking.

English 12. Fundamentals of Speech. **Four hours.**

Prerequisite: English 10a.

Corrective work for posture and movement; applied science of voice production; characteristics of a pleasing voice; individual diagnosis of voice qualities, tone-placing; enunciation; pronunciation; pitch, rate, and volume; much practice in individual speaking and reading under careful, constructive criticism.

English 20a. Journalism I. **Two hours.**

Prerequisite: Freshman English.

Survey of newspaper content; nature of news; special forms of news; news gathering; news writing; features and human interest stories; mechanics of news printing; news ethics; the school newspaper. (Note: Students taking this course are expected to work on the college newspaper and to attend and "cover" assembly or chapel programs).

English 20b. Journalism II. **Two hours.**

Prerequisite: Freshman English.

The newspaper as an organ of public opinion and an instrument of the general welfare; newspaper history; newspaper policies and trends; freedom and responsibility of the press; purposes and types of editorials; editorial technique; reading and analysis of editorials; editorial writing; press and radio; the informative newspaper and magazine article.

English 21a. Survey of Literature I. **Three hours.**

Prerequisites: English 10a, 10b, and 10c.

Greek and Latin epic poetry; classical drama; lyrical poetry; Greek and Roman satire, history, and philosophy; Oriental, Hebrew, and Mohammedan literature.

English 21b. Survey of Literature II. **Three hours.**

Prerequisites: English 10a, 10b, and 10c.

German myth and saga; Celtic myth and romance; French and Spanish romance; Italy and the Renaissance; the Golden Age of Spain; modern French literature; literature of the Germanic lands; modern Russian literature.

English 21c. Survey of Literature III. **Three hours.**

Prerequisites: English 10a, 10b, and 10c.

Anglo-Saxon poetry; romances of chivalry; ballads; Chaucer; Shakespeare and Elizabethan drama; Renaissance English lyrics; Milton; prose from Bacon to Pepys; prose of the New Classicism; poetry of the New Classicism; the Romantic poets; English prose of the nineteenth century; American essays and addresses; Victorian poets; nineteenth century American poets; the short story; the new English drama.

English 22. The Short Story. **Two hours.**

Prerequisites: English 10a, 10b, 10c, and one course in literature.

Technique of the short story; development of the short story as a literary type; romanticism and realism in stories; the short story in America; short stories for the high school; the writing of a story or of a paper.

English 23. Public Speaking. **Four hours.**

Prerequisites: English 10a, 10b, 10c.

Source and organization of speech materials; objective and audience considerations; practice in preparation and delivery of speeches for various occasions, purposes and audiences; speech criticism; parliamentary procedure with participation drills.

English 24. Literature for Children. **Four hours.**

Prerequisites: English 10a, 10b, 10c.

Brief survey of the history of children's literature and a study of the literature itself under the following topics: Mother Goose, fairy tales, folklore and fables, realistic and fanciful stories, myths, epics and sagas, the romance cycles, poetry, fiction, biography, historical and geographical literature. Methods of teaching literature in the elementary grades are touched upon.

English 25. Story Telling. **Two hours.**

Prerequisites: English 10a, 10b, 10c and 24.

History of story telling; purpose and aim of story telling; story interests of childhood; preparing the story; telling the story; dramatizing the story; uses of the story in schoolroom subjects; study of a considerable stock of stories of a wide range of appeal; much practice in actual telling of stories to children; constructive analysis of each student's performance.

English 26. Grammar for Teachers **Three hours.**

Prerequisites: English 10a, 10b, 10c.

Parts of speech, syntax and sentence analysis; history of teaching of grammar; methods of testing and measuring progress.

English 27a. Dramatic Presentation I. **Two hours.**

Prerequisites: English 10a, 10b, 10c.

Art and technique of acting; relation of the individual to the role, to the play, and to the director; value of creative dramatics to the individual and to the group.

English 27b. Dramatic Presentation II. **Two hours.**

Prerequisite: English 27a.

Selection of the play; casting and rehearsing; theory and construction of stage scenery; theory and practice of stage lighting; costuming and make-up; organization of production staff.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

English 30a. Advanced Composition I. **Two hours.**

Required of juniors and seniors who have less than eight hours of freshman English.

Required written reports, precis, recommendations; informational essays or feature articles, news stories, editorials; book reviews; critical essays; research articles. Students are encouraged to write with a view to submitting their articles to suitable periodicals for publication.

English 30b. Advanced Composition II. **Two hours.**
Prerequisite: English 30a.

Practice in writing short stories, one-act dramas, radio and motion picture dramas, feature articles, critical essays, familiar essays. Students are encouraged to write with a view to submitting their writing to suitable agencies for publication.

English 31. Discussion and Debate. **Four hours.**

Logic and semantics; process of persuasion in the formation of public opinion; application of discussion and debate as essential tools for reaching decisions in a democratic society.

English 32a. Shakespeare I. **Two hours.**

Prerequisites: English 10a, 10b, 10c, and two courses in literature.

The England of Shakespeare's time; Elizabethan drama when Shakespeare began writing; Elizabethan theories of comedy; the development of Shakespeare's comic genius; sources of his material; representative comedies, comic-history plays, romantic tragicomedies.

English 32b. Shakespeare II. **Two hours.**

Prerequisites: English 10a, 10b, 10c, and two courses in literaature.

Elizabethan England as a background for Shakespeare's tragedies; theories of Elizabethan tragedy; sources of Shakespeare's tragedies; the chronicle plays as tragedy; the great tragedies; elements of tragedy in his late plays.

English 33. Modern Drama. **Four hours.**

Prerequisites: English 10a, 10b, 10c, and two courses in literature.

Ibsen and his influence; the free theater and the new drama on the continent; naturalism and expressionism; the independent theater and the dramatic revival in England; the Abbey Theater and the Irish Renaissance; American imitators of the European drama; the little theater movement; Eugene O'Neill and the repertory theater; experimental drama.

English 34a. The Novel I. **Two hours.**

Prerequisites: English 10a, 10b, 10c and at least one course in literature.

Survey of the English novel from its beginning to the close of the nineteenth century; content and literary characteristics of the different types of the English novel; some foreign influences; reading and criticism of the different types of the novel.

English 34b. The Novel II. **Two hours.**

Prerequisites: English 10a, 10b, 10c and at least one course in literature.

History and development of the novel in the United States

from the beginning to 1920 and the English novel to the same year; different types of the American novel; English and continental influences; extensive reading and discussion of the various types of the novel.

English 35a. Contemporary Literature I. **Two hours.**

Prerequisites: English 10a, 10b, 10c and at least one course in literature.

The novel, the short story, and biography of the last ten years and their roots in the immediate past; new names, new influences, and new trends in fiction; proper emphasis upon literature of escape, of self-realization, and of social consciousness; evaluation of current fiction and biography; advantages and limitations of book reviews and commercial organizations designed to assist in the selection of new books; extensive rather than intensive reading (not confined to any one nation).

English 35b. Contemporary Literature II. **Two hours.**

Prerequisites: English 10a, 10b, 10c and at least one course in literature.

Same period as preceding course but with emphasis on contemporary poetry and drama; new poets and poetic theories and techniques exemplified in current poetry; new dramatists and current dramatic theories and techniques; stage drama, motion picture drama, and radio drama; extensive rather than intensive reading (not confined to any one nation).

English 36. Literature of the United States. **Four hours.**

Prerequisites: English 10a, 10b, 10c and two courses in literature.

Persistence of pioneer attitudes in American literature; the case for religious, political, personal, and economic freedom; from rugged individualism toward social concern; "woods longing" and the open road; quest for the ideal; inter-racial accommodation and conflict; progress toward realism; man and nature; men and machines; men and earth; literary evaluation; teaching techniques; writers as human beings; topics inherent in selected individual writings from colonial times to the present.

English 37a. Poetry and Prose of the Romantic Period. **Four hours.**

Prerequisite: English 10a, 10b, 10c and two courses in literature.

In poetry the rise, development, and culmination of Romanticism; the impact of German metaphysics; the development of poetic form in Wordsworth and Coleridge; the return to the past in Scott and Southey; revolt and satire in Byron; Shelley and democratic idealism; Keats and esthetics. In prose the development of the essay as a medium of self-expression, literature criti-

cism, and social ideals, as exemplified in the writings of Lamb, Coleridge, Hazlitt, DeQuincey, and Landor.

English 37b. Poetry and Prose of the Victorian Period. **Four hours.**

Prerequisite: English 10a, 10b, 10c and two courses in literature.

Social ideals, political principles, religious conceptions, scientific theories, and cultural changes as mirrowed in the non-fictional prose of such Victorian writers as Macaulay, Carlyle, Newman, Mill, Spencer, Arnold, Huxley, Ruskin, Stevenson, and Pater. The poetic cycle from Tennyson to Housman, reflecting the religious faith and doubt, social reform and unrest, estheticism, and skepticism of the period.

English 38a. Speech Correction. **Two hours.**

Prerequisites: English 10a, 10b, 10c.

Diagnostic and remedial procedures for the correction of speech; phonetics from the point of view of English speech; the phonatory and articulatory aspects of speech development.

English 38b. Speech Correction. **Two hours.**

Prerequisites: English 10a, 10b, 10c.

Diagnostic and remedial procedures for speech disorders; psychogenic disorders associated with the linguistic aspect of speech development.

English 39. Books and the Modern Mind. **Two hours.**

Prerequisites: English 10a, 10b, 10c and at least one course in literature.

Reading and discussion of modern books that have influenced modern thought and action; basic concepts of the physical universe, man, and society as found in such writers as Darwin, Marx, Frazer, and others; social applications in novels and plays; influence upon forms of literature and art; attempts at ethical and religious synthesis.

English 40. Kentucky Literature. **Two hours.**

Prerequisites: English 10a, 10b, 10c and one course in literature.

Economic, political, social, and religious background of the early Kentuckians as expressed in their writings; ante bellum literature; the influence of the War Between the States; the rise of the local color fiction group; the revival of poetry; present-day writers and tendencies; ballads; seventeenth century survivals in the native idiom; opportunity to familiarize students with the John Wilson Townsend Collection.

English 42. Renaissance and Elizabethan Literature. **Four hours.**

Prerequisites: English 10a, 10b, 10c and two courses in literature.

Spirit of the Renaissance; influence of Italian and other continental literatures; early English humanists; Elizabethan enthusiasm; Elizabethan language; new literary influences; chief literary forms; Spenser, Sidney, Bacon, Marlowe, Shakespeare, Ben Jonson; other dramatists and lyrists.

English 43. Milton and the Puritan Period. **Three hours.**

Prerequisites: English 10a, 10b, 10c and two courses in literature.

The Puritan background; life of Milton as it affected his writings; his earlier poetry; development of his genius; the great epic **Paradise Lost** and its interpretation; **Paradise Regained** and **Samson Agonistes;** other writers of the period and their writings.

English 44. Chaucer and Medieval Story. **Two hours.**

Prerequisites: English 10a, 10b, 10c and two courses in literature.

Study of the various types of medieval story—the folk-epic, the beast tale, the metrical romance, the fabliau, the saint's legend, and the ballad—and of the social and moral ideals which they reveal.

English 45. The Age of Classicism. **Four hours.**

Prerequisites: English 10a, 10b, 10c and two courses in literature.

Social backgrounds of classicism; Restoration drama as a reaction against Puritanism; Dryden and the rise of the critical spirit; French and Graeco-Roman influences; the literary dictatorship of Dr. Johnson; the decay of literary patronage; new tendencies in Thomson, Cowper, Gray, Chatterton, Goldsmith, and Crabbe.

English 46. Interpretative Reading. **Four hours.**

Sources of materials; techniques of interpretation; criteria for selecting readings, for preparing contestants and readers, and for judging contests; individual work under careful direction.

English 47. History of the English Language. **Four hours.**

Prerequisite: Two years of work in English toward a major or minor in English.

The family of languages; the Old English period; the Middle English period; modern English; the foreign and native elements in English; history of English vowel sounds; mutation and gradation; the consonants; English inflections; English accent; collateral readings in the less technical works on the English language.

FRENCH

LOWER DIVISION COURSES

French 11. Elementary French. **Four hours.**

Pronunciation; grammar; conversation in French on material studied.

French 12. Elementary French. **Four hours.**

Prerequisite: French 11 or one unit of high school French.

Continuation of grammar study begun in French 11 and oral work based on reading material.

French 21. Intermediate French. **Four hours.**

Prerequisites: French 11 and 12 or two units of high school French.

Grammar review; short history of French literature; notable examples of the French short story.

French 22. Intermediate French. **Four hours.**

Prerequisite: French 21 or three units of high school French.

Grammar review; three French novels.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

French 31. French Prose Classics. **Four hours.**

Prerequisite: Two years of college French or the equivalent.

Intensive reading of a number of French prose classics with emphasis on the language structure; extensive reading of works by representative prose writers from the Middle Ages to the nineteenth century.

French 32. French Prose Classics. **Four hours.**

Prerequisite: French 31 or its equivalent.

Selected prose works of the nineteenth and twentieth centuries.

French 41. French Poetry. **Four hours.**

Prerequisites: Two years of college French or the equivalent.

The Medieval Period; the Renaissance; the Golden Age; Romanticism; the Parnassus School; Symbolism; contemporary tendencies in poetry.

French 42. French Drama. **Four hours.**

Prerequisite: French 41 or its equivalent.

The classical period; the eighteenth century; Romanticism; modern drama.

GEOGRAPHY

LOWER DIVISION COURSES

Geography 10. Principles of Geography. **Four hours.** Fee 50c.

The use of maps, globes, tellurians and atlases; the use and interpretation of charts, diagrams and statistics; a brief history of the changing aspects of geography; the nature of human geography; the earth's form and movements, their results and influences upon man; the continents and their influences upon man; human activities in mountains and plains; the influence of the oceans on man; the use of inland waters; man's relation to soil and minerals; man

and vegetation in different types of climatic regions; the effects of population density upon standards of living; distribution of the population of the earth.

Geography 20. Climatology. **Four hours.**

Weather and weather observation; elements of climate; climatic regions of the world—a study of climate as affected by the physical factors of sun, mountains, land and water; changes in temperature, pressure, winds—direction and force; humidity; cloud phenomena, precipation, and the major types of storms; forecasting; the climatic regions of the world; weather conditions and their relation to human activities.

Geography 21. Economic Geography of the Industries. **Four hours.**

The more important agricultural products—cereals, starch foods, forage crops, vegetable crops, fruit crops, wine industries, sugar, vegetable oils, condiments and tobacco, vegetable fibers, non-food vegetables; the animal food stuffs, animal fibers, furs, skins; the mining industries; manufacturers—aluminum, automobile, copper, chemical, textile, leather, iron and steel, paint, petroleum, rubber, etc.; trade routes, inland in North America and international trade routes; world trade centers.

Geography 22. Geography of North America. **Four hours.** Prerequisite: Geography 10.

The United States as a national unit; the geographic regions of the United States as the Upper Lake Region; the Driftless Area, the Atlantic Coastal Plain, the Piedmont, the Interior Highlands, the Puget Sound Trough; the geographic regions of Canada, as the Great Lakes-St. Lawrence Region; the Prairie Plains and Arctic Meadows, the Pacific Mountain Region; Alaska.

Geography 23. World Democracy and Geopolitics. **Two hours.**

Geopolitics; the ideological conflict; backgrounds of nationalism; the global war and strategy; social factors; economic factors; political factors; physical factors; religion and war; educational impacts; cultural factors; health and physical fitness; land and ocean warfare; military factors; diplomacy and war; after war, what?

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Geography 30. Geography of the South. **Two hours.**

The South, yesterday and today; the advancing South; the physical landscape; the cultural landscape; the major regions; the people of the South; the races and their distribution and problems; transportation facilities; agriculture, its development, its regions, its problems, and possibilities; power resources; mineral wealth, forest resources; manufacturing and industries; comparison of rural and urban communities of the South; the South's future.

Geography 31. Economic and Historical Geology. **Two hours.**

The origin of the earth; genesis of ore deposits; evolution of plants and animals; origin of mountains; history and growth of continents; the earth's interior; formation and recognition of common rocks and minerals; architecture of the earth; geologic time table; the geologic eras; the growth of knowledge of the earth; man's place in nature; geology in the service of man applied to industry and to the larger affairs of men; economic and geologic features of minerals.

Geography 32. Geogrophy of Europe. **Four hours.**

Prerequisite: Geography 10.

The general geographic setting of Europe as a whole; the physiographic climate, economic and political geography of each of the major countries; European trade and commerce; the geographic advantages and handicaps of the various European countries that have resulted from the changes in boundaries that followed the World War I.

Geography 33. Geography of Latin America. **Four hours.**

Prerequisite: Geography 10.

International importance of Latin America; growing interest of the United States in Latin America; historical geography of discovery, settlement and development; Caribbean resources; the Panama Canal; South America in world trade; population distribution; transportation facilities; climatic and physiographic regions; economic geography of the Pampas, the Amazon Basin, Central Mexican Plateau; the Llanos, Andean Highlands.

Geography 40. Geography of World Problems. **Four hours.**

Prerequisite: Six hours of geography.

Geography and the evolution of nations; the expansion of Europe; European influence in world affairs; economic resources; the British Empire and its many problems—India, Egypt, Ireland, South Africa; geography and problems of major nations of the Orient; Islamism; Russia, past and present; Europe in Africa; the problems of the Far East.

Geography 41. Geography of Asia. **Four hours.**

Prerequisite: Geography 10.

The structure of Asia; the geography of Asia; the climates of Asia; the vegetation of Asia; the population of Asia; the exploration and exploitation of Asiatic countries by European nations; Asia's position in the world; the agricultural resources of Asia; summary of the economic resources of Asia; Turkey—the threshold of Asia; Arab Asia; the Iranian Plateau; the Indian Empire; Ceylon; Southeastern Asia; the East Indies; China, the Dead Heart of Asia; Japanese Empire; Asiatic Russia; growing interest in the United States in Asia; the geographic advantages and disadvantages.

Geography 42. Geography and Geology of Kentucky. **Two hours.**

The Kentucky country; geology; surface and drainage; weather and climate; native vegetation; native animals; native people; the coming of the white man; the soil and its conservation; agriculture; animal industries; mineral resources; manufacturing; transportation; location and growth of cities; Louisville and the cities of the Ohio Basin; other cities; the counties of Kentucky; cultural features of Kentucky—government, education; Kentucky of the future.

Geography 43. Geography of Africa and Australia. **Four hours.**

Prerequisite: Geography 10.

Structure; physiography; climate; vegetation; population; exploration; exploitation; position in world affairs; agricultural resources; transportation facilities; climatic and physiographic regions; foreign trade and foreign interests, comparisons and contrasts with other continents; the geographic advantages and disadvantages; changes resulting from World War and post-war conditions; present-day problems and their geographic background.

Geography 44. Conservation of Natural Resources. **Four hours.**

History of the conservation movement; the forest resources; soil depletion and restoration; the land resources; the fertilizer resources; water origin and supply; water power; irrigation and reclamation; navigation; the mineral resources; the mineral fuels, coal petroleum, natural gas; the metallic resources, iron, copper, lead, gold, zinc, aluminum, silver, uranium and radium; the human resources; agricultural losses.

GEOLOGY

Geology 20. Physical Geography and Geology. **Four hours.** Fee, $1.00.

Materials of the earth; weathering; work of wind; work of ground water; work of streams; work of glaciers; the ocean and its work; the structure of the earth; earthquakes; volcanoes and igneous intrusions; metamorphism; mountains and plateaus; ore deposits; soils, their classification and origin; major physiographic features, their origin and influence on man.

GERMAN

LOWER DIVISION COURSES

German 11. Elementary German. **Four hours.**

Pronunciation; Grammar; conversation in German on material studied.

German 12. Elementary German. **Four hours.**

Prerequisite: German 11 or one unit of high school German.

Continuation of grammar study begun in German 11 and oral work based on reading material.

German 21. Intermediate German. **Four hours.**

Prerequisites: German 11 and 12 or two units of high school German.

Grammar review; short history of German literature; notable examples of the German short story.

German 22. Intermediate German. **Four hours.**

Prerequisite: German 21 or three units of high school German.

Grammar review; three German novels.

GOVERNMENT

LOWER DIVISION COURSES

Government 10. American Government. **Four hours.**

National government: organization of the various departments with their functions and operations, political parties, ideals of correct government, relation of federal to state and local government.

Government 11. American Government. **Four hours.**

State and local government: organization, operation, and problems of state, county and municipal government; relation of state and local to national government.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Government 30. English Government. **Two hours.**

Prerequisite: Government 10.

The rise of governmental institutions of England and her influence among the nations; kingship; parliament; cabinet; ministry; privy council; Swiss system of government and her democracy.

Government 40. International Diplomacy. **Four hours.**

Prerequisite: Government 10.

Leading negotiations and treaties among the nations; diplomatic and consular affairs in general.

Government 41. Foreign Government. **Four hours.**

Prerequisite: Government 10.

Main features of the governments of Germany, France, Italy, and Russia.

Government 42. Principles of Democracy. **Two hours.**

The theory of democracy; history of democracy; the attack on democracy; defense of democracy; leading democratic documents; democracy in the present crisis.

HEALTH

LOWER DIVISION COURSES

Health 10a. Personal Hygiene. **Two hours.**

Correct living habits; desirable health practices; the place of

health in modern times; scientific versus unscientific and irrational health practices.

Health 20. First Aid to the Sick or Injured. **Two hours.** Fee, 50c.

Meeting emergencies in the schoolroom, on the playground, on the athletic field, and in everyday life. The Standard and Advanced Red Cross Certificates are awarded to students completing the course.

Health 21. General Bacteriology. **Four hours.** Fee, $1.00.

Prerequisites: Chemistry 11 and 12.

Stains and staining techniques; sterilization; preparation of culture media; isolatoin and identification of bacteria; bacterial control; physical and chemical agents; immunity; disease control.

Health 22. Home Nursing. **Two hours.**

First aid and care of sickness in the home.

Health 26. Public Hygiene and Safety. **Four hours.**

Public hygiene and disease prevention; home, school, and community sanitation and public health.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Health 31. Applied Bacteriology. **Four hours.** Fee, $1.00.

Water analysis; food spoilage; fermentation; food poisoning; pathogenic bacteria; vaccination; animal inoculations; livestock diseases.

Health 32. Individual Gymnastics. **Two hours.**

Treatment of faulty body mechanics; diagnosis and exercises for deformities of the human body such as weak feet, heart disturbances, paralysis, and bone and joint abnormalities.

Health 36. Materials and Methods for Teaching Health Education. **Four hours.**

General objectives of the health program; health set-ups and practices; selection, organization, and use of health materials for primary and intermediate grades; methods of teaching health.

HISTORY

LOWER DIVISION COURSES

History 10. History of Western Civilization. **Four hours.**

Rise of ancient governments; the city state of Greece; Grecian art and architecture; the rise of imperial government in Rome; the influence of the Roman legal system; the rise of the Church; medieval institutional and cultural developments.

History 11. History of Western Civilization. **Four hours.**

Rise of modern states; the Renaissance and Reformation; dynastic and international wars; the rise of labor-capital disputes;

the rise and development of the socialist party; the World War and its aftermath.

History 20. American History. **Four hours.**

Discovery, exploration, and conquest by nations; colonization; the colonial wars; alienation of the colonies from England and eventual revolution; establishment of government and the rise of a powerful nation; the War of 1812.

History 21. American History. **Four hours.**

The new nationalism; the westward movement; Jacksonian democracy; the slavery controversy; Civil War and reconstruction; the gilded age.

History 22. American History. **Four hours.**

The rise of industrialism; problems of the American farmer; money and the tariff; the last American frontier; America as a world power; the World War; politics since 1876; recent social developments.

History 25. Local History Appreciation. **Two hours.**

Prerequisite: One course in American History.

Local history, its significance in state and national development; local records, county, city, school, church, business, family; county and other local histories; biographies and genealogies; diaries, journals, letters, etc.; local leaders; sources for writing local history; local historical surveys; excursions to historic buildings, ruins, museums, cemeteries.

History 29. A Survey of the Global War. **Two hours.**

Social, economic, and political background of World War II; problems brought about by world conflict; the importance of a lasting peace.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

History 30. European History from 1300 to 1789. **Four hours.**

Prerequisites: History 10 and 11.

Renaissance; Reformation; rise of the national state and royal absolutism; decline of manorialism; rise of capitalism and the mercantile system; the British revolutions of the seventeenth century; international rivalries; wars of dynastic and territorial aggrandizement; the age of reason and enlightened despotism.

History 31. European History from 1789 to the Present. **Four hours.**

Prerequisite: History 30.

The French Revolution and Napoleon; intellectual and religious developments; restoration and reaction following the Congress of Vienna; revolutionary and reform movements; nationalism; imperialism; political, social, and economic developments in the major countries between the First and Second World Wars.

History 35. English History to the Stuarts. **Four hours.**

The coming of the Anglo-Saxon; advance toward nationality; the Norman invasion; English feudalism; the Hundred Years' War; legal and political development; the Wars of the Roses and the fall of feudalism and rise of Tudor monarchy.

History 36. English History from 1603 to 1714. **Two hours.**

Prerequisite: History 35.

The Divine Right of James I and Charles I; religious and financial struggles of the time; parliamentary resistance to the first two Stuarts; the "Roundheaded Rebellion"; Charles II; James II and the English Revolution.

History 37. English History from 1714 to the Present. **Four hours.**

Prerequisite: History 35.

The Hanoverian dynasty; the struggle for empire; development of British Imperialism; parliamentary reforms of the nineteenth century; influence of political parties; England's place in the "Parliament of Men."

History 38. Inter-Racial Relations. **Four hours.**

Local, national, and international problems brought about by inter-racial relations.

History 39. Teaching the Social Studies. **Two hours.**

Aims and objectives; national committee reports; social studies literature; methods of instruction; practical tools of instruction; integration; grade placement; community resources; evaluation.

History 40. Recent and Current World History. **Two hours.**

Prerequisite: History 31.

The First World War and its consequences; the League of Nations and the International Court of Justice; causes of the Second World War; present conditions.

History 41. Modern Germany from 1789 to the Present. **Two hours.**

Prerequisite: History 31.

Political, social, economic, and intellectual developments; effects of the French Revolution and the Napoleonic Wars; revolutionary movements after the Congress of Vienna; formation of the German Empire; domestic and international developments from 1870 to 1914; the World War; the German Republic and the Hitler Revolution.

History 42. The French Revolution and Napoleon. **Two hours.**

Prerequisite: History 31.

A survey of the Old Regime with emphasis on the causes of the Revolution; a detailed study of the Revolution and the Napoleonic Empire.

History 43. History of France Since 1815. **Two hours.**

Prerequisite: History 31.

The Industrial Revolution and its impact on social and political life; religious, intellectual, and cultural trends; reactionary policies of the Restoration period; the Revolutions of 1830 and 1848; domestic affairs under the Second French Empire and the Third French Republic; French nationalism and imperialism in relation to Franco-German rivalry; factors in the decline of France in recent years.

History 44. History of the American West. **Four hours.**

Prerequisites: History 20, 21, and 22.

Significance of the West in American History; advancement of the frontier; influence of the West on politics; Indian problems; the West of the fur trader; the rancher, the miner, and the farmer; communication and transportation; the end of the frontier.

History 45a. History of the Old South. **Two hours.**

Prerequisites: History 20, 21, and 22.

Settlement; peoples; religion; government; education; social and economic conditions; relations with the North and with foreign nations consequent to safety; the Civil War.

History 45b. History of the New South since the Civil War. **Two hours.**

Prerequisites: History 20, 21, and 22.

Reconstruction, resumption, and progress in all lines.

History 46. Kentucky History. **Four hours.**

General, social, economic, and political history of Kentucky; her influence in the development of American democracy; her periods of leadership in the nation; her educational system; Kentucky's great men and women; historical sources of Kentucky.

History 47. Recent and Current American History. **Two hours.**

Prerequisites: History 20, 21, and 22.

The onrush of "Big Business"; commerce; expansion; tariff; foreign relations; imperialism; World Wars and current politics.

History 48. Latin American History. **Four hours.**

A survey of the history of the nations to the south of us, covering the period from Columbus to the present; Latin American culture, economics, politics, and world interest, with special emphasis on our relations with these countries.

HOME ECONOMICS

LOWER DIVISION COURSES

Home Economics 10. Textiles. **Two hours.**

Physical and chemical characteristics of the various textile fibers; the weaves, finishes, durability and care of fabrics; application of scientific information to the purchase and use of fabrics.

Home Economics 11. Source, Selection and Cost of Foods. **Two hours.**

Problems involved in the marketing of foods, and in the purchase of foods; the foods available for home use; the brands of foods; the amounts of food for family groups.

Home Economics 12. Costume Design. **Two hours.**

Principles of design as related to the costume; study of line, color, and texture in fabrics as related to different types of individuals.

Home Economics 20. Garment Making. **Four hours.**

Fundamentals of garment construction by means of planning, selecting, purchasing of fabrics; commercial patterns; construction of simple garments; hand and machine sewing.

Home Economics 21. Nutrition and Food Preparation. **Four hours.** Fee, $1.50.

Composition of foods; the nutritive value of foods; diet in relation to health; the fundamental principles involved in the preparation of foods.

Home Economics 22. Meal Planning, Preparation, and Serving. **Four hours.** Fee, $5.00.

Prerequisite: Home Economics 21 or its equivalent.

The equipment and arrangement of different types of kitchens; the preparation of balanced meals; the cost of meals; table service; etiquette; hospitality; and special entertainments.

Home Economics 23. Dressmaking. **Four hours.**

Prerequisite: Home Economics 20 or its equivalent.

Construction of four dresses; one wool, one silk or rayon, one a made-over problem, fittings and finishes.

Home Economics 24. Interior Decoration. **Two hours.**

Prerequisite: Art 10.

Decoration and furnishing fo the interior of the house considering the style of architecture; cost, durability and use of the house.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Home Economics 30. Household Equipment. **Two hours.**

Standards for judging household equipment; advantages of labor-saving devices; care of equipment.

Home Economics 31. Advanced Cookery. **Four hours.** Fee, $3.00.

Prerequisite: Home Economics 21.

Scientific principles of cookery through experimentation and variation of proportions in recipes; skills and techniques of cookery.

Home Economics 32. The Family. **Two hours.**

Biological, psychological, social and economic aspects of family organization.

Home Economics 33. Introduction to Home Management. **Two hours.**

Prerequisites: Home Economics 11, 21, and 22.

Economic and scientific factors which influence home living: time, labor, finance, sanitation and household servant problems.

Home Economics 34. Tailoring. **Two hours.**

Prerequisites: Home Economics 20 and 23.

Experience in handling of woolen fabrics; principles involved in tailoring a coat or a suit.

Home Economics 35. Advanced Nutrition. **Four hours.**

Prerequisite: Chemistry 20.

Food nutrients and functions in the body

Home Economics 36. Materials and Methods for Teaching Vocational Home Economics. **Four hours.**

Prerequisites: Education 21, 34 and 36, or registration in Education 36.

The characteristics of the high school girl, her needs and how to meet these needs through the organization of units of study, classroom procedures, and illustrative materials; home visits and home projects; equipment; records and reports; adult education.

Home Economics 40. Dietetics. **Four hours.**

Prerequisites: Home Economics 21, 22 and 35, Chemistry 20, Biology 29 or registration in it.

Nutritive value of common foods; essentials of adequate diet; human nutrition applied to feeding individuals under various physiological, economic and social conditions.

Home Economics 41. Child Development. **Four hours.**

Prerequisites: Education 21 and 34.

Care necessary for physical, mental, emotional, and social development of the child from infancy through adolescence; observation of children.

Home Economics 42. Advanced Costume Design. **Two hours.**

Prerequisite: Home Economics 12.

The modern dress designer; problems in dress designing and draping.

Home Economics 43. Home Management. **Six hours.**

Prerequisite: Home Economics 33.

Reservations for appointment to live in the Home Management House should be made several weeks prior to the beginning of the semester.

Improvement of skills in: the management of time, money, and energy; meal planning, food buying; preparation and serving of

meals; cleaning; and laundry. Family relationship, etiquette and hospitality are emphasized.

Home Economics 44. Institutional Management. **Four hours.**
Organization, management and equipment of institutions such as tea rooms, cafeterias, and hotel dining rooms; trips to visit large eating places, hotels, and school cafeterias.

Home Economics 46. Problems in Teaching Home Economics. **Two hours.**
Prerequisite: Home Economics 36.
Problems arising in student teaching; problems anticipated on the job.

INDUSTRIAL ARTS

LOWER DIVISION COURSES

Industrial Arts 10. General Shop. **Four hours.** Fee, $1.00.
Drawing; woodworking; metalworking; finishing; electrical appliances; home mechanics; crafts.

Industrial Arts 11. Elementary Cabinet Construction. **Four hours.** Fee, $1.00.
Basic woodworking course including common hand tools, principles of construction, the process of finishing, and the characteristics of the ordinary cabinet woods.

Industrial Arts 12. Beginning Machine Shop. **Four hours.** Fee, $1.00.
Blueprint reading; bench work; common lathe operations; use of the drill press and shaper; source, characteristics, and uses of the common metals.

Industrial Arts 13. Elementary Mechanical Drawing. **Four hours.** Fee, $1.00.
Lettering; drafting room conventions; inking; tracing; blueprinting.

Industrial Arts 14. Wood Finishing and Decoration. **Two hours.** Fee, $1.00.
Prerequisite: Industrial Arts 11.
Making of a series of panels; practical work in painting, interior finishing, and the refinishing of furniture.

Industrial Arts 15. Elementary Industrial Arts Design. **Two hours.** Fee, $1.00.
Prerequisite: Industrial Arts 13.
Fundamental principles of constructive, decorative, and pictorial art; practical application of art principles; designing and rendering with pencil, pen and ink, and color.

Industrial Arts 16. Primary Handicraft. **Two hours.** Fee, $1.00.

Typical forms of industrial arts applicable to the conditions in the elementary school.

Industrial Arts 20. Elementary Machine Drawing. **Four hours.** Fee, $1.00.

Prerequisite: Industrial Arts 13.

Assembly drawing in accordance with standard drafting room conventions; principal forms of bolts, screws, threads, nuts and conventions; problems from perspective with dimensions, tabular data, and sketches made from actual machine parts.

Industrial Arts 21. Intermediate Cabinet Construction. **Four hours.** Fee, $1.00.

Prerequisites: Industrial Arts 11 and 13.

Practice work on wood lathe; making of turned elements; selecting, constructing, and finishing of projects; sharpening and care of tools.

Industrial Arts 22. Advanced Industrial Arts Design. **Two hours.** Fee, $1.00.

Application of the fundamentals of design by the production of designs, plans, and rods in furniture, art, and sheet metal objects, tools, and crafts.

Industrial Arts 23. Advanced Mechanical Drawing. **Four hours.** Fee, $1.00.

Prerequisite: Industrial Arts 13.

Special emphasis on technique; drawings correlated with shop-work.

Industrial Arts 24. Elementary Pattern Making. **Two hours.** Fee, $1.00.

Use of woodworking tools and machines common to pattern making; making of patterns involving principles of shrinkage, draft, finish, warp, cores; study of the uses of patterns in foundry.

Industrial Arts 25. Sheet Metal Work. **Four hours.** Fee, $1.00.

Care and use of the common sheet metal tools and machines; making of layouts; templates; projects involving soldering, seaming, punching, riveting, forming, and spot welding.

Industrial Arts 26. General Metalworking. **Four hours.** Fee, $1.00.

Operations and information in bench metal; machine shop practice; sheet metal; art metal; foundry; forge; heat treating; welding.

Industrial Arts 27. Arc and Oxacetylene Welding. **Two hours.** Fee, $1.00.

Study and development of skills in common welding practices; horizontal, incline, and overhead welding.

Industrial Arts 28. House Planning. **Two hours.** Fee, $1.00.

Planning of a residence with floor plans, elevations, details, and specifications; orders of architecture; common styles of homes; building materials.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Industrial Arts 30. Shop Equipment. **Two hours.** Fee, $1.00.

Experience in shop planning and advice on the selection of equipment; types of industrial arts shops.

Industrial Arts 31. Advanced Cabinet Construction. **Four hours.** Fee, $1.00.

Prerequisites: Industrial Arts 11 and 21.

Projects involving skill in the use of machines and tools; reeding; fluting; carving; inlaying; veneering; dovetailing.

Industrial Arts 32. Weaving and Upholstering. **Two hours.** Fee, $1.00.

Prerequisite: Industrial Arts 21.

Upholstering plain surfaces and frame structures; upholstering with springs; renovation; caning; split and fiber weaving; material, tools, and tool operations.

Industrial Arts 33. Wood Turning. **Four hours.** Fee, $1.00.

Prerequisite: Industrial Arts 21.

Common wood turning problems; sharpening of tools; operations involving spindle, face plate, chuck turning, finishing, and polishing.

Industrial Arts 34. Machine Shop Practice I. **Four hours.** Fee, $1.00.

Prerequisites: Industrial Arts 10 and 14.

Operation of the most common machine lathes used in school shops; machine tools; machine methods on simple tool projects.

Industrial Arts 35. Art Metal Work. **Four hours.** Fee, $1.00.

Skill in working with soft metals and mild steel; operations in laying out, raising, planishing, chasing, etching, forming, spinning, turning, and finishing metals; bending, twisting, drilling, riveting, and welding in ornamental iron.

Industrial Arts 36. Organization of Subject Matter in Industrial Arts. **Two hours.**

Organization of subject matter for teaching of industrial arts in the junior and senior high schools; objectives of the teacher; operation and information units; organization of jobs for teaching purposes; teaching devices; shop planning; equipment; progress charts.

Industrial Arts 37. Elementary Architectural Drawing. **Four hours.** Fee, $1.00.

Prerequisite: Industrial Arts 13.

Lettering; elements of architecture; mouldings; shades and shadows; washwork; rendering; drawing from model or cast; sketching.

Industrial Arts 38. Principles of Aeronautics. **Four hours.**

History of flight; the development of aeroplane types; elements of aerodynamics; the airframe; aircraft power plants; meterology; navigation; the new geography of the air; flying terms and techniques; teaching of aeronautics. In addition there will be laboratory work dealing with motors, wind tunnel experimentation, and modeling.

Industrial Arts 40. Problems of Industrial Arts. **Two or four hours.**

A course for seniors and graduate students in which problems of special interest and value to the student will be studied.

Industrial Arts 41. Machine Woodworking. **Two hours.** Fee, $1.00.

Prerequisite: Industrial Arts 31.

Special operations, repairing, and servicing of power woodworking machinery.

Industrial Arts 44. Machine Shop Practice 11. **Four hours.** Fee, $1.00.

Prerequisites: Industrial Arts 10, 26 and 34.

Machine shop practice consisting of layout work, jig setups, shop mathematics, and blueprint reading; moulding; casting; machining different types of tapers; fits, thread cutting, shaping, milling, and heat treating of different metals.

Industrial Arts 46. Teaching of Industrial Arts. **Two hours.**

Problems of teaching industrial arts; organization of subject matter; methods of presentations; organization and class management; types of lessons; lesson plans; demonstrations; testing; system of grading.

Industrial Arts 47. Advanced Architectural Drawing. **Four hours.** Fee, $1.00.

Prerequisite: Industrial Arts 37.

Student, with the instructor's approval, will select a project and make a suitable esquisse and rendu of same.

LATIN

LOWER DIVISION COURSES

Latin 10. Elementary Latin. **Four hours.**

Pronunciation; declension of nouns, adjectives, and pronouns; indicatives; infinitives; simple uses of subjunctive of verbs; acquisition of the fundamental principles of the language; ability to read simple Latin prose dealing with Roman home life, mythology, and Roman history.

Latin 11. Elementary Latin. **Four hours.**

Prerequisite: One unit of high school Latin or Latin 10.

Caesar and a wide range of authors of equal difficulty; vocabulary, inflection, syntax, and their application to English; collateral reading on Roman history and society; training in the understanding of Latin in the Latin order.

Latin 12. Selections from Cicero and Ovid. **Four hours.**

Prerequisite: Two units of high school Latin or Latin 11.

Selections from the works of Cicero, Ovid, Pliny, and others; continued emphasis on mastery of vocabulary and syntax; emphasis on the relation of Latin to English; comparison of the government of the Roman Republic to that of democracies of the present day.

Latin 13. Selections from Vergil's Aeneid. **Four hours.**

Prerequisite: Two or three units of high school Latin or Latin 12.

Selections from Aeneid of Vergil; study of the Augustan age; study of metrical form and structure of the poem; continued emphasis on Latin inflections and constructions.

Latin 15. Selections from Livy. **Four hours.**

Prerequisite: Three units of high school Latin or the equivalent.

Survey of Roman history from the foundation of Rome to the close of the second Punic War; assigned readings from such historians as Mommsen, Heitland, and others; comparative study of Rome and Carthage; critical study of Livy's style.

Latin 16. Selections from Horace. **Four hours.**

Prerequisite: Three units of high school Latin or the equivalent.

Selected odes, epodes, and satires from Horace; study of the Augustan age from both a literary and political point of view; study of Horace's philosophy; various meters employed by Horace.

Latin 22. The Writing of Latin Prose. **Four hours.**

Prerequisite: Latin 15 or the equivalent.

Selections from the text, "Arnold's Latin Prose"; review of syntax; sight reading.

Latin 23. The Latin Dramatists. **Four hours.**

Prerequisite: Latin 15 or the equivalent.

Dramas of Plautus, Terrence, and Seneca; two plays of Plautus for intensive study; rapid reading of other representative plays.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Latin 30. Literature of the Late Republic. **Four hours.**

Prerequisite: Latin 23 or the equivalent.

Selections from the works of Caesar, Sallust, Nepos, and Cicero with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age with emphasis on the works of Catullus and Lucretius.

Latin 31. Latin Literature of the Early Empire. **Four hours.**

Prerequisite: Latin 23 or the equivalent.

The Oxford University Press text—selections compiled by A. C. B. Brown. The selections form a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.

Latin 32. Satire and Epigram. **Four hours.**

Selected satires of Juvenal; selected epigrams of Martial; development of satire in Latin literature with assignments from Horace; satire in English; epigram as a literary expression.

Latin 41. Latin Prose of the Silver Age. **Four hours.**

Prerequisite: Latin 23 or the equivalent.

Letters of Pliny the Younger; selections from the writings of Tacitus.

Latin 42. Roman Private Life. **Four hours.**

Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town and country life.

LIBRARY SCIENCE

Library Science 10. Library Orientation. **One hour.**

Discussions of the card catalog; library plans; principles of classification; mechanical make-up of the books; reference books; indexes; bibliographies; printed aids in book sections.

MATHEMATICS AND ASTRONOMY

LOWER DIVISION COURSES

Mathematics 10. College Algebra I. **Four hours.**

Review of high school algebra; exponents and radicals; functions and their graphs; equations and their solutions; systems of linear equations and quadratic equations.

Mathematics 11. College Algebra II. **Four hours.**

Prerequisite: Mathematics 10.

Ratio and proportion; systems of equations involving quadratics; progressions; mathematical induction; binomial theorem; theory of equations; permutations; combinations; probability; determinants; partial fractions.

Mathematics 12. Trigonometry. **Four hours.**

Prerequisite: Mathematics 10.

The trigonometric functions; logarithms; right triangle; radian measure; properties of the trigonometric functions; functions of two angles; the oblique triangle; the inverse trigonometric functions.

Mathematics 20. Solid Geometry. **Four hours.**

Fundamental propositions, problems, and exercise of solid geometry.

Mathematics 21. Analytic Geometry. **Four hours.**

Prerequisites: Mathematics 10, 11, and 12.

Graphs and loci; polar coordinates; straight line; circle; conic sections; general equation of the second degree; elements of solid analytic geometry.

Mathematics 22. Differential Calculus I. **Four hours.**

Prerequisite: Mathematics 21.

Variables; functions; differentiation; applications of the derivative; successive differentiation; parametric and polar equations and roots.

Mathematics 23. Differential Calculus II. **Four hours.**

Prerequisite: Mathematics 22.

Differentials; curvature; theorem of mean value and its applications; series; expansions of functions; partial differentiation; integration by elementary forms.

Mathematics 26. Teachers' Arithmetic. **Four hours.**

Aims and objectives of arithmetic; value of problems; assignments; examinations; importance of accuracy and speed; value of drill; games; solutions of problems; methods of teaching arithmetic.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Mathematics 30. General Astronomy. **Four hours.**

Development of astronomy as a science; development of the solar system; astronomical instruments; better known facts of astronomy.

Mathematics 31. Elementary Statistical Methods. **Two hours.**

Methods of collecting data; methods of tabulation of data; uses and purposes of statistical methods; central tendencies; deviations; correlations; graphic methods.

Mathematics 32. Integral Calculus. **Four hours.**

Prerequisite: Mathematics 23.

Integration; constant of integration; definite integral; integration as a process of summation; centroids; fluid pressure; other applications and multiple integrals.

Mathematics 33. Theory of Equations. **Four hours.**

Prerequisite: Mathematics 22 or enrollment in Mathematics 22.

Graphs; complex numbers; cubic equations; quartic equations; determinants and symmetric functions.

Mathematics 34. College Geometry. **Four hours.**

Prerequisite: Mathematics 21.

Geometric constructions; properties of the triangle; transversals; harmonic properties of circles.

Mathematics 40. Mathematical Statistics. **Two hours.**

Prerequisite: Mathematics 32.

Graphs; moments; cumulative frequency; the normal law; correlation; probability and frequency curves.

Mathematics 41. Differential Equations. **Four hours.**

Prerequisite: Mathematics 32.

Differential equations of the first order; applications; singular solutions; linear equations with constant coefficients; miscellaneous methods for solving equations of higher order than the first; integration in series; total differential equations.

Mathematics 42. Advanced Calculus. **Four hours.**

Prerequisite: Mathematics 32.

Indeterminate forms; power series; partial differentiation; implicit functions and applications to geometry.

Mathematics 46. Teaching of High School Mathematics. **Four hours.**

Prerequisite: Sixteen hours of college mathematics or consent of Head of the Department.

Aims of high school mathematics; importance of high school mathematics; history of mathematics; problems of teaching applied to mathematics; methods of teaching algebra, plane and solid gometry, trigonometry, and high school arithmetic, selection of problems; types of examinations and their importance; class instruction as applied to mathematics; importance of assignment and methods of study.

Mathematics 47. The History of Mathematics. **Two hours.**

The development of mathematical symbolism; the development of mathematical concepts; the contribution of mathematics to the development of civilization.

Mathematics 48. Problems in the Teaching of Mathematics. **Two hours.**

The course of study; organization of materials; methods of teaching various topics of algebra and geometry; the selection of textbooks; the construction and selection of tests.

MILITARY SCIENCE AND TACTICS

The primary purpose of the Reserve Officers Training Corps (ROTC) is to strengthen our national defense by providing trained men who would be available in time of war. The secondary purpose is to give educational training which, through the years, has been found distinctly valuable by college students who have taken the course.

As an essential element of military training, certain details of conduct are stressed in order that the student may complete his training well disciplined in mind and body. The particular methods employed by the military department are but a means to an end. The basic aim is to cultivate in each student habits of cheerful and unquestioning response to proper authority, loyalty, self control, precision, and alertness. These qualities, together with professional knowledge and experience in command, develop leadership and personality, both valuable in peace and war.

The Federal Government supports military training (ROTC) by providing uniforms or their money equivalent; by detailing instructors and maintenance personnel from the Regular Army; by furnishing army equipment; and, in the case of advanced students, by quarterly money payments determined annually. R.O.T.C. training is given by the college under the regulations and supervision of the War Department. Credit toward graduation is allowed as for other college courses.

R.O.T.C. training contemplates four years of work. Hence, for those students who are ambitious and desire to obtain a commission in the Officers Reserve Corps of the United States Army, it is absolutely necessary for them to start the course in their freshman year. However, any student who has two years of college remaining may enroll in the basic course.

LOWER DIVISION COURSES

Military Science 11. Introduction to Military Science. **Two hours.**

Military discipline and the customs of service; leadership; field artillery material; obligations of citizenship; elementary gunnery and organization of the army.

Military Science 11a. Basic Course in Military Band. **Two hours.**

Military Science 12. Fundamentals of Military Training. **Two hours.**

Leadership; service of the piece and military material.

Military Science 12a. Basic Course in Military Band. **Two hours.**

Prerequisite: Military Science 11a.

Military Science 13. Fundamentals of Military Training. **Two hours.**

History and policy; sanitation and first aid; map reading; leadership and field artillery ammunition.

Military Science 13a. Basic Course in Military Band. **Two hours.**

Prerequisite: Military Science 12a.

Military Science 21. Basic Military Fundamentals. **Two hours.**

Prerequisites: Military Science 11, 12, and 13.

Fire control instruments; map and aerial photograph reading; battery communications; leadership; automotive vehicle construction and operation; signal communication; and B. C. Detail.

Military Science 21a. Basic Course in Military Band. **Two hours.**

Prerequisite: Military Science 13a.

Military Science 22. Basic Military Fundamentals. **Two hours.**

Prerequisites: Military Science 11, 12, and 13.

Basic instruction in the work of the battery commander's detail, in leadership, and in automotive vehicle construction and operation; driving.

Military Science 22a. Basic Course in Military Band. **Two hours.**

Prerequisite: Military Science 21a.

Military Science 23. Basic Military Fundamentals. **Two hours.**

Basic instruction in the work of the battery commander's detail, in leadership, and in automotive vehicle construction and operation; driving and instruments.

Military Science 23a. Basic Course in Military Band. **Two hours.**

Prerequisite: Military Science 22a.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Military Science 31. First Year Advanced Course. **Four hours.**

Prerequisites: Military Science 21, 22, and 23.

Leadership; administration; military motor vehicles; defense against chemicals; aerial photograph reading.

Military Science 32. First Year Advanced Course. **Four hours.**
Prerequisites: Military Science 21, 22, and 23.
Military team work; advanced gunnery; motor vehicles; reconnaissance and occupation of position and preparation of fire.

Military Science 33. First Year Advanced Course. **Four hours.**
Prerequisite: Military Science 32.
Military team work; advanced gunnery (preparation of fire); motor vehicles.

Military Science 41. Advanced Work in Military Science. **Four hours.**
Prerequisites: Military Science 31, 32, and 33.
Instruction of basic R.O.T.C. students; military history and policy; the law of military offenses; the articles of war; courts-martial; method of instruction; property procurement and funds.

Military Science 42. Advanced Work in Military Science. **Four hours.**
Prerequisites: Military Science 31, 32, and 33.
Officers in the R.O.T.C.; military tactics; military history and policy; military law and administration.

Military Science 43. Advanced Work in Military Science. **Four hours.**
Prerequisites: Military Science 31, 32, and 33.
Officers in the R.O.T.C.; military tactics; military history and policy; military law and administration; O.R.C. regulations; gunnery.

MUSIC

Music Fees

Class Instruction:	
Piano, voice, violin, one quarter	$ 3.50
Wood wind, brass wind, one quarter	2.50
Individual Instruction:	
Piano, voice, violin, organ, violoncello,	
Two lessons per week, one quarter	18.00
One lesson per week, one quarter	12.00
Practice room with piano, one hour daily, one quarter	3.50
Use of college owned violin, one quarter	2.00

PIANO

Music 1a, b, c. Piano. Individual Instruction. **No credit.**
See music fees.
Introductory course for the non-musician preparatory to Music 11a.
Major scales; tonic chords; first pieces.
Kohler, Op. 190; Streabbog, Op. 63; Bilbro, Progressive Early Grade Studies; Loeschorn, Op. 65, Bk. I.

Music 7a, b, c. Piano. Class Instruction. **No credit.**
See music fees.
Notation; hand position; simple melodies; folk songs.

Music 11a, b, c. Piano. Individual Instruction. **Two hours.**
See music fees.
Schmitt Preparatory Exercises; all major and minor scales in parallel motion; tonic chords and inversions; Burgmuller, Op. 100; Loeschorn. Op. 65, Book II; Bach-Carroll, Book for Beginners; Clementi, Easy Sonatas, Op. 36.

Music 11d, e, f. Piano. Individual Instruction. **Two hours.**
See music fees.
Schmitt Preparatory Exercises; major and minor scales in parallel and contra motion; tonic chords, and broken chords with inversions; Heller, Op. 47; Duvernoy, Op. 120; Bach, Little Preludes; Clementi and Kuhlau Sonatinas.

Music 11g, h, i. Piano. Individual Instruction. **Two hours.**
See music fees.
Wolff, The Little Pischna; major and minor scales in parallel and contra motion; tonic broken chords and inversions; tonic and diminished seventh arpeggi; Czerny, Op. 299; Heller, Op. 45; Bach, Two Part Inventions; Mozart, easiest Sonatas.

Music 11j, k, l. Piano. Individual Instruction. **Two hours.**
See music fees.
Philipp Exercises Pratiques, or Pischna; major and minor scales in thirds, sixths, and tenths; tonic, dominant, and diminished seventh arpeggi, and inversions; Cramer (Bulow), Sixty Selected Studies; Bach, three part inventions; Sonatas by Mozart and Haydn.

Music 11m, n, o. Piano. Individual Instruction. **Two hours.**
See music fees.
Philipp; Pischna, Exercises Journaliers; scales and arpeggi in faster tempi; Bach, French Studies; Czerny, Op. 740; or Clementi, Gradu ad Parnassum; Beethoven, Sonatas.

VOICE

Music 2a, b, c. Voice. Individual Instruction. **No credit.**
See music fees.
Introductory course for the non-musician preparatory to Music 12a.

Music 8a, b, c. Voice. Class Instruction. **No credit.**
See music fees.
Group instruction; to provide a foundation for correct singing and to prepare the student for more advanced private study.

Music 12a, b, c. Voice. Individual Instruction. **Two hours.**

See music fees.

Breathing exercises; diction, with emphasis placed on vowel formation; technical exercises to fit the individual need of the student.

Sieber studies; simple sacred and secular songs.

Music 12d, e, f. Voice. Individual Instruction. **Two hours.**

See music fees.

Scales, with emphasis on evenness of scale; Vaccai and Marchesi studies; songs from the English, Italian, and German schools.

Music 12g, h, i. Voice Individual Instruction. **Two hours.**

See music fees.

Scales, supplemented by other exercises leading to more rapid vocalization; Ponofka studies; art songs, with attention to interpretation and artistic performance.

Music 12j, k, l. Voice. Individual Instruction. **Two hours.**

See music fees.

Advanced technical exercises; selections from the standard operas and oratorios; songs in French, Italian and Classical Leider.

Music 20. Chorus. **One hour.**

To encourage and foster a knowledge of and a desire to participate in choral singing; to teach part singing; to familiarize students with standard community and folk songs and with the more familiar choral works and simpler modern works for mixed chorus; to acquaint prospective teachers with desirable high school choral material; to illustrate ideals of choral singing and methods of attaining them.

VIOLIN

Music 3a, b, c. Violin. Individual Instruction. **No credit.**

See music fees.

An introductory course consisting of such studies, scales, and exercises as will prepare the student to enter Music 13a.

Music 10a, b, c. String Class. **Two hours.**

To provide for the beginner who wishes to learn to play a string instrument an opportunity to study under the stimulus of class instruction; to start the beginner on the road toward sufficient playing and technical ability to teach strings in class and to train the string section of a school orchestra.

The first two quarters and part of the third are devoted to the study of one particular instrument. The third quarter devotes some attention to the string instruments not studied in Music 10a and 10b. Practical arranging for string orchestra is also studied.

Music 13a, b, c. Violin. Individual Instruction. **Two hours.** See music fees.

Technical proficiency through the third position; two finger scales in these positions; two octave scales in all major keys; development of the technique of the left hand and of the bow arm; sight reading.

Studies and exercises by Kayser and Wohlfart, Danca, Variations; simple selections.

Orchestra attendance required.

Music 13d, e, f. Violin. Individual Instruction. **Two hours.** See music fees.

Study of the positions; scales and arpeggi in all major and minor keys, in all positions; chord study, double, triple and quadruple; finger shifting and bowing exercises; one- and two-finger scales preparatory to octaves; broken octaves; sight reading.

Mazas, Opus 36; Kreutzer, Selected Studies; Fiorillo and Parre; miscellaneous pieces; one or more of the simpler concertos and sonatas.

Orchestra attendance required.

Music 13g, h, i. Violin. Individual Instruction. **Two hours.** See music fees.

Three octave scales; left and right hand pizzicato; varied bowing of the diminished seventh chord; all scales, ascending and descending on one string, with any one, two or three fingers; thirds; fingered harmonics.

Sevick, Opus 8; Fiorillo; Rode; Wilhelmj, School of Thirds; Handel, Six Sonatas; Tartini, Sonato in G. Minor.

Orchestra attendance required.

Music 13j, k, l. Violin. Individual Instruction. **Two hours.** See music fees.

Scales in thirds and octaves; fingered octaves and tenths; cultivation and development of style and an understanding of the composition being played; sonatas and concertos of preceding years continued for public performance; extensive violin solo and chamber music literature.

The student is required to do ensemble work in string quartette and must be able to play first violin in the college orchestra.

VIOLONCELLO

Music 4a, b, c. Violoncello. Individual Instruction. **No credit.** See music fees.

Music 14a, b, c. Violoncello. Individual Instruction. **Two hours.**

See music fees.

Music 14d, e, f. Violoncello. Individual Instruction. **Two hours.**

See music fees.

ORGAN

Music 15a, b, c. Organ. Individual Instruction. **Two hours.** Prerequisite: Four years of piano study.

See music fees.

Elementary Instruction Book for the Hammond Organ; Clemens, Modern School for the Organ; preparatory studies for manuals alone; trios for manuals and pedals; Easy Arrangements for the Hammond Organ.

Music 15d, e, f. Organ. Individual Instruction. **Two hours.**

See music fees.

Buck, Studies in Pedal Phrasing; Bach, Selected Chorale Preludes; Easier Work of Mendelssohn, Guilmant, and other composers for organ.

Music 15g, h, i. Organ. Individual Instruction. **Two hours.**

See music fees.

Dupre, Seventy-nine Chorales; Bach, Selected Chorale Preludes; Selected Works from Guilmant, Rheinberger, Mendelssohn; Selected Modern Compositions.

Music 15j, k, l. Organ. Individual Instruction. **Two hours.**

See music fees.

Bach, Chorale Preludes, Preludes and Fugues; Mendelssohn, Sonata I or II; Widor, Symphony II or IV, Selected Modern Compositions.

WIND INSTRUMENTS

Music 6a, b, c. Wind Instruments. Individual Instruction. **No credit.**

See music fees.

Introductory course for those who wish to learn to play any of the woodwind or brass instruments.

Music 16a. Instrument Class: Woodwind. **Two hours.**

See music fees.

Practical instruction in methods of tone production, tuning, fingering and care of the instruments; group instruction, involving handling and playing of the woodwind instruments of the band and orchestra.

Music 16b. Instrument Class: Brass. **Two hours.**

See music fees.

Practical instruction in methods of tone production, tuning, fingering and care of the instruments; group instruction, involving handling and playing of the brass instruments of the band and orchestra.

Music 16c. Instrument Class: Percussion. **Two hours.**

See music fees.

Practical instruction in the fundamentals of percussion technique; group instruction in the use of the snare drum, tympani and traps; particular emphasis will be placed on the snare drum.

HISTORY AND APPRECIATION

LOWER DIVISION COURSE

Music 27. The Enjoyment of Music. **Four hours.**

The most interesting music from all periods and all styles. Besides the regular library of recorded music, there is available for this course the Carnegie Music Set, including reproducing machine and record library.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Music 37a. Music History I. **Two hours.**

Archaic and medieval music; organization of church music, music of the Renaissance and Reformation; music of Elizabethan England; early classical composers; Bach, Handel, Haydn, and Mozart.

Music 37b. Music History II. **Two hours.**

Romanticism in music; the Romantic opera; development of piano music; the art song; Beethoven; Schubert; Schumann; Chopin; Liszt; Wagner.

Music 37c. Music History III. **Two hours.**

Late Romantic and national trends in music; modern music; Impressionism; atonality; Debussy; Ravel; Hindemith; Stravinsky; jazz influence in American music; Harris; Gershwin, etc.

MUSIC EDUCATION

LOWER DIVISION COURSES

Music 25a. Public School Music I. **Two hours.**

Such knowledge of music theory and of the principles of notation as is needed by the grade teacher.

Music 25b. Public School Music II. **Two hours.**

The aims of music in the grades; the child voice; tone quality; the unmusical singer; rhythmic development; use of the pitch pipe; rote songs; use of the phonograph in teaching songs, together with increasing ability in music reading on the part of the student.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Music 34. Methods of Teaching Music Appreciation. **Two hours.**

Music for little children; mimetic activities; rhythm band; free rhythmic expression; directed rhythmic expression; story telling music; music for quiet listening; bibliographies of helpful materials about music and composers; types of phonographs and recordings; records suitable for presentation in each grade; integration of music with the units of work in the general subjects.

Music 41. Grade Methods and Materials. **Two hours.**
Prerequisites: Music 25a, 25b, and 18.
The teaching and supervision of music in the grades.

Music 42. Conducting. **Two hours.**
Prerequisites: Music 25a, 25b, and Music 18, or the equivalent.
Technique of the baton; tempo; attach; release; phrasing; dynamics; seating of the chorus and orchestra; discipline of rehearsals; community music.

Music 43a, 43b, 43c. Teaching of Piano in Classes. **Two hours.**
Prerequisites: Music 11g, 11h, 11i.
Methods of teaching piano in classses; observation and practice teaching; The Oxford Piano Course, supplemented by material from the works of John Thompson, Dorothy Gayner Blake, Leon Iltis, Bernice Frost, etc.

Music 44a. Band and Orchestra Procedures and Materials. **Two hours.**
Analysis and organization of various courses of study for instrumental groups of varying abilities; rehearsal routines; training student sectional leaders; duties which may be assumed by students; adaptation of practice quarters to fit acoustical needs; program mechanics for public appearances; publicizing and interpreting music activities; care of equipment; program and teaching materials; consideration of the modified Prescott system and similar courses of study.

Music 44b. Band and Orchestra Procedures and Materials. **Two hours.**
Continuation of Music 44a.

THEORY

LOWER DIVISION COURSES

Music 18. Elements of Music. **Two hours.**
Staff notation, notes, rests, clefs, scales (various modes), keys, meter, chromatic tones, intervals, chords, cadences, abbreviations, and other symbols; music terms; elements of form; solmization; music writing and simple dictation.

Music 28a. Beginning Harmony I. **Two hours.**
Four voice part writing based on primary triads; the dominant seventh melodic passing tones and embellishments; keyboard work consisting of scales, triads, etc.

Music 28b. Beginning Harmony II. **Two hours.**
Prerequisite: Music 28a.
Continuation of first term harmony; use of secondary triads and inversions in major and minor keys; harmonizations with

figured bass and given soprano; original composition in simple forms; keyboard work with cadences and elementary harmonization.

Music 28c. Beginning Harmony III. **Two hours.**

Prerequisite: Music 28b.

Secondary chords of the seventh; modulation to nearly related keys; continuation of keyboard and original work.

Music 29a. Beginning Sight Singing and Ear Training I. **One hour.**

Prerequisite: Music 18.

Sight singing of melodic exercises in major and minor keys and in various rhythms; tone group, and verbal and tonal dictation; interval drill.

Music 29b. Beginning Sight Singing and Ear Training II. **One hour.**

Prerequisite: Music 29a.

More difficult sight singing and tonal dictation; simple harmonic recognition; complex rhythms.

Music 29c. Beginning Sight Singing and Ear Training III. **One hour.**

Prerequisite: Music 29b.

Continuation of Music 29b.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Music 38a. Advanced Harmony I. **Two hours.**

Prerequisite: Music 29c.

Extraneous modulation; secondary chords of the seventh; analysis of sonatas of Haydn and Mozart; study of melodic and harmonic development.

Music 38b. Advanced Harmony II. **Two hours.**

Prerequisite: Music 38a.

Chords of the Neopolitan sixth; augmented sixth; modulation through use of the diminished seventh chord; analysis and memorizing a Bach choral; writing a sonata, allegro form.

Music 38c. Advanced Harmony III. **Two hours.**

Prerequisite: Music 38b.

Embellishment and reduction of melodies; modulation to distant keys; original work to fit the student's need.

Music 39a. Advanced Sight Singing and Ear Training. **One hour.**

Continuation of Music 29c.

Music 39b. Advanced Sight Singing and Ear Training II. **One hour.**

Prerequisite: Music 39a.

Music 39c. Advanced Sight Singing and Ear Training III. **One hour.**

Prerequisite: Music 39b.

Music 48a. Counterpoint I. **Two hours.**

Prerequisites: One year of Harmony and an elmentary knowledge of piano playing.

Strict counterpoint, two and three voices in all species; original polyphonic writing based on a study of the Invention and the Canon.

Music 48b. Counterpoint II. **Two hours.**

Prerequisite: Music 48a.

Four part counterpoint in all species; original composition based on study of the Motet and the Madrigal.

ENSEMBLE

Music 21. Band. **One-third hour.**

(Ordinarily credit is given only upon completion of three quarters' work.)

Admission to membership upon approval of instructor.

Music 22. Orchestra. **One-third hour.**

Admission to membership upon approval of instructor.

Music 23. Girls' Glee Club. **One-third hour.**

Admission to membership upon approval of instructor.

Music 24. Men's Glee Club. **One-third hour.**

Admission to membership upon approval of instructor.

PHYSICAL EDUCATION

LOWER DIVISION COURSES

Physical Education 10. Fundamental Physical Education Activities. **One-half hour.** Fee, 50¢

To promote the development of physical efficiency and skills. The course is divided into sections as indicated below:

Physical Education 10-a, Elementary Tumbling and Aparatus.
Physical Education 10-b, Elementary Swimming.
Physical Education 10-c, Fundamentals of Touch Football.
Physical Education 10-d, Fundamentals of Basketball.
Physical Education 10-e, Fundamentals of Softball.
Physical Education 10-f, Fundamentals of Volleyball.
Physical Education 10-g, Fundamentals of Tennis.
Physical Education 10-h, Fundamentals of Handball.

Physical Education 10-i, Fundamentals of Boxing and Wrestling.
Physical Education 10-j, Fundamentals of Badminton and Aerial Dart.
Physical Education 10-k, Fundamentals of Shuffleboard, Paddle Tennis and Table Tennis.
Physical Education 10-l, Folk Dancing and Singing Games.
Physical Education 10-m, Clogging.
Physical Education 10-n, Archery.
Physical Education 10-r, Riding and Horsemanship.

Physical Education 11. Introduction to Physical Education. **Two hours.**

Place of physical education in general education and American life; consideration of comparative physical education.

Physical Education 20. Plays and Games for Elementary Grades. **Two hours.**

Materials, methods and practice in physical education activities suitable for children in the elementary school.

Physical Education 21. Games and Sports for the Secondary School. **Two hours.**

Physical education activities suitable for junior and senior high school students.

Physical Education 24. Coaching Baseball. **Two hours.**

Theory and practice in coaching the fundamentals of baseball; team offense and defense.

Physical Education 25. Clubcraft. **Two hours.**

National girls' organizations such as Girl Scouts, Camp Fire Girls, Girl Reserves, and 4H Clubs; leadership and organization of clubs.

Physical Education 26. Scouting and Clubcraft. **Four hours.** Fee, 50c. (Men.)

History and principles of scouting; practical scoutcraft and clubcraft. The scoutmaster's certificate is awarded to those completing the course.

Physical Education 27. Softball and Tennis Coaching Fundamentals for Women. **Two hours.**

Theory and practice of techniques and teaching procedures of softball and tennis for women. Also lead-up games for these sports.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students.)

Physical Education 30. Folk and National Dancing. **Two hours.**

Traditional and social dances of the United States and other countries.

Physical Education 31. Kinesiology. **Two hours.**
Fundamentals of body mechanics; movements of the human body.

Physical Education 32. Physiology of Activity. **Two hours.**
Effects of physical education activities on the various systems of the human body.

Physical Education 34. Advanced Physical Training Activities. **Two hours.** Fee, 50c.
Prerequisite: Physical Education 10a.
Advanced tactics; drills for demonstrations; pyramid building; tumbling; apparatus; opportunity for leadership and observation.

Physical Education 35a, 35b. Modern Dance. **Two hours.**
Modern dance and the fundamentals of movement and rhythm; dance composition.

Physical Education 36. Materials and Methods for Teaching Physical Education. **Two hours.**
Theories of play; study of existing play programs; correlation with other subjects; games, skills, lesson planning and observation.

Physical Education 37. Coaching Basketball. **Two hours.**
Theory and practice in coaching the fundamentals of basketball; team offense and defense.

Physical Education 38. Basketball and Volleyball Coaching for Women. **Two hours.**
Theory and practice of techniques and teaching procedures of basketball and volleyball for women; lead-up games for these sports.

Physical Education 39. Coaching Track and Fields. **Two hours.**
Theory and practice in coaching fundamentals involved in track and field.

Physical Education 40. Community Recreation. **Two hours.**
The problem of leisure; vacation time for children; adult recreation; content of school programs for leisure education; physical education; dramatics; reading; music; art and handcrafts; nature study; extracurricular activities.

Physical Education 42. Coaching Football. **Two hours.**
Theory and practice in coaching the fundamentals of football; team offense and defense.

Physical Education 46. Administration and Organization of Physical Education. **Four hours.**
Policies and procedures of administration on the elementary and secondary school level. Special emphasis on construction and care of facilities, equipment, and supervision of personnel.

PHYSICS

LOWER DIVISION COURSES

Physics 10. Household Physics. **Four hours.**

Open only to students majoring in home economics.

Forces and their effects; work, energy and power; elementary machines; heating, refrigeration, and air conditioning; principles of electricity, sound and light; applications in the home and community such as the telephone, radio, talking pictures, transportation, transmission of pictures, and automatic controls.

Physics 15. Pre-Radar. **Four hours.**

This course is designed to aid the high school graduate who expects to enter the armed forces and to qualify for training as a radio and radar technician. Emphasis will be upon general laws and types of electric circuits, practical applications of such terms as voltage, amperage, capacity, resistance, wattage, broad principles of transmission and reception of radio waves, and elementary vacuum tube theory.

Physics 16. Elementary Photography. **Two hours.**

Historical background; elementary photographic optics; defects of lenses; camera parts and accessories; camera testing; film sensitivity and exposure; development of negatives; fixing and washing of negatives; contact printing; photography of colored objects; photography of moving objects; use of artificial lights; reproduction; projection printing; composition; finishing the print; toning of prints; natural-color photography; lantern slides and transparencies.

Physics 17. Slide Rule Theory and Practice. **One hour.**

Designed to aid the student in doing arithmetical computations rapidly.

Physics 20. Mechanics and heat. **Four hours.** Fee, $1.00.

Prerequisites: Mathematics 10, 11, and registration in Mathematics 12.

Statics; kinetics; gravitation and falling bodies; work, energy, power, and friction; motion in a circle; rotation of a body; elasticity; hydrostatics; mechanics of gasses; fluids in motion; surface tension and capillarity; temperature; expansion; heat measurements; changes of state; heat and energy; propagation of heat.

Physics 21. Wave Motion, Sound, and Light. **Four hours.** Fee, $1.00.

Prerequisite: Physics 20.

Waves; sound and its transmission; properties of sound; acoustics; the physical basis of music; production of tones; light sources; reflection; refraction; optical instruments; dispersion and spectra; interference of light; diffraction; polarized light; color; sources of light; optical phenomena in nature.

Physics 22. Electricity and Corpuscular Physics. **Four hours.** Fee, $1.00.

Prerequsite: Physics 20.

Magnetism; electrostatics; electrodynamics; the electrical current; batteries and thermocouples; electrical measurements; electromagnetism; induced currents; electrical machinery; electrical oscillations, electrical discharges; thermo- and photo-electric emission; x-ray and related phenomena; atomic structure; radioactivity.

Physics 23. Problems in General Physics. **Two hours.**

Prerequisites: Physics 20, 21, 22 or registration in Physics 22.

Problems selected from topics in Physics 20, 21 and 22.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Physics 30. Modern Physics. **Four hours.**

Prerequisites: Physics 20, 21, 22, Mathematics 22 and 23, or registration in Mathematics 23.

Nature of matter, electricity, and radiant energy; spectroscopy; x-rays.

Physics 31. Modern Physics. **Four hours.**

Prerequisites: Physics 20, 21, 22, Mathematics 22 and 23, or registration in Mathematics 23.

Molecular structure; radioactivity; atomic theory; relativity; astrophysics.

Physics 32. Introduction to Physical Optics. **Four hours.**

Prerequisites: Physics 20 and 21.

Wave motion; reflection and refraction; further study of lenses; the telescope; dispersion; facts concerning the spectrum; interference; diffraction; plane polarized light; the electromagnetic theory of light; the quantum theory and origin of spectra; the dilemma.

Physics 33. Heat. **Four hours.**

Prerequisites: Physics 20, 21, 22, Mathematics 22.

Historical review of theories and discoveries; thermometry; specific heats; thermal expansion; transfer of heat; first law of thermodynamics; radiation; change of state; continuity of state; introduction to thermodynamics; production of low temperatures; production of high temperatures.

Physics 34a. Electricity and Magnetism. **Four hours.**

Prerequisites: Physics 22, Mathematics 32 or registration in Mathematics 32.

Electrical magnetic field; potential; capacity; theory or dielectrics; electrical images; measurement of current; measurement of

resistance; measurement of potential; current and magnetic field; the ballistic galvanometer; iron and the magnetic circuit; direct current dynamo machines; current in inductive circuit; measurement of inductance and capacity; units and dimensions; alternating current meters; alternating current networks; alternators; transformers; transmission and distribution of power.

Physics 34b. Electricity and Magnetism. **Two hours.**

Prerequisite: Physics 34a.

Conduction of gases; electromagnetic waves; electrical communication; thermoelectricity; radioactivity and the structure of matter.

Physics 35. Sound. **Four hours.**

Prerequisites: Physics 20, 21, 22, and Mathematics 22.

Theory of vibration; virbating systems and sources of sound; reception, transformation, and measurement of sound energy; technical applications.

Physics 36. Electronics. **Four Hours.** Fee, $1.00.

Prerequisite: Physics 34.

Theory of thermionic tubes; amplifier circuit principles; photosensitive devices; rectifiers; principles of radio, radar and television.

Physics 37. Electrical Measurements. **Two hours.** Fee, $1.00.

Prerequisite: Physics 34, or registration in Physics 34.

Experiments selected to supplement the theory of Physics 34.

Physics. 40. Intermediate Mechanics. **Four hours.**

Prerequisites: Physics 20, 21, and Mathematics 32.

Review of elementary concepts; rectilinear motion; curvilinear motion; particle of dynamics from the point of view of energy; statics and dynamics of particles and larger bodies.

Physics 41. Advanced Mechanics. **Four hours.**

Prerequisite: Physics 40 and Mathematics 32.

Dynamics of rotating bodies; constrained motion; oscillations; deformable bodies and wave motion; mechanics of fluids.

PSYCHOLOGY

Psychology 20. General Psychology. **Four hours.**

Preview of psychology; factors in development; motivation; emotions; learning; the management of learning; thinking; personality and individual differences; intelligence; vocation and employment psychology; getting along with people; psychology and social problems.

NONSPECIALIZED SCIENCE

LOWER DIVISION COURSES

Science 10. Survey of Physical Science I. **Four hours.**

Not open to students who have had one or more laboratory courses in chemistry.

Structure of matter; atomic structure; chemical reactions; inorganic, organic and synthetic substances; materials related to agriculture and nutrition; physical geography; structure of the earth; oceanography; meteorology.

Science 11. Survey of Biological Science. **Four hours.**

Not open to students who have had one or more laboratory courses in biology.

Structural organization and chemical composition of living things; reproduction; genetics; variation; respiration; nutrition; maintenance of health.

Science 12. Survey of Physical Science II. **Four hours.**

Not open to students who have had one or more laboratory courses in physics.

Mechanics; heat; radiant energy; electricity; numerous applications of science of everyday life; the solar system; stars; the galaxy; extragalactic systems; astronomical instruments and measurements.

Science 20. Materials and Methods of Teaching Science in the Elementary School. **Four hours.**

Study of science topics appropriate for the elementary grades; preparation of units of science for use in the elementary grades; observation of teaching in the training school; conferences with teachers in the training school; field trips; securing free and inexpensive materials for class use; collection and preservation of specimens; other visual aids.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Science 35. The History of Science. **Four hours.**

The development of scientific concepts through the ages; the contributions of science to civilization; relations of scientific developments and various philosophies; biographical sketches.

Science 45. Materials and Methods of Teaching Science in the Secondary Schools. **Four hours**

Selection of textbooks, manuals, suplementary readings, etc.; organization of laboratory space and purchasing of equipment; making simple equipment; securing free and inexpensive materials; preparation and presentation of work units; visual aids;

science demonstrations; test construction and administration; club-work; specimen collection and preservation; observation in Model High School.

SOCIOLOGY

LOWER DIVISION COURSES

Sociology 10. College Orientation. **One hour.**

The college and its functions; living in college; the development of efficient study habits; personal and family responsibilities; social relationships; vocational guidance.

Sociology 14. Rural Sociology. **Four hours.**

Historical backgrounds, movements, resources, and problems of rural communities; rural-urban relationships; rural people; problems of rural youth; agriculture and its problems of adustment; community organizations and institutions; adult education; public health, rural recreation, and social welfare; community organization and local government; relationship of the school to other institutions and agencies of the rural community; location and use of educational materials and resources in the community; state and national policies for the improvement of rural society.

Sociology 20. Social Understandings. **Four hours.**

The meaning of "social understandings"; the community and the community process; community surveys; the study of specific social problems, groups, and institutions as they relate to the community process.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

Sociology 30. Introduction to Sociology. **Four hours.**

Field of sociology and its relation to other social science courses; relation of living conditions to life; the problem of finding and using leaders; social achievements; man's relation to his institutions and his responsibility for them; the family; religion; and morals.

Sociology 31. Current Social Problems. **Four hours.**

The social and institutional impact of industrialism and secularism; economic, social, and biological problems in modern society; social wreckage.

Sociology 35. The Meaning of Total War. **One hour.**

Basic economic problems; human and material resources; human geography in the air age; the problem of civilian defense; health problems; nutrition and welfare; mobilization of manpower; financing the war effort; price control, priorities, rationing, etc.; changing educational patterns; social dislocations and post-war problems.

SPANISH

LOWER DIVISION COURSES

Spanish 11. Elementary Spanish. **Four hours.**
Grammar; pronunciation; reading of easy Spanish.

Spanish 12. Elementary Spanish. **Four hours.**
Prerequisite: Spanish 11 or one unit of high school Spanish.

Spanish 21. Intermediate Spanish. **Four hours.**
Prerequisites: Spanish 11 and 12 or two units of high school Spanish.
Review of grammar; intensive work on studies of Spanish speaking countries as a basis for spoken Spanish.

Spanish 22. Intermediate Spanish. **Four hours.**
Prerequisite: Spanish 21 or three units of high school Spanish.
Foundation work for advanced study in literature and intensive study of spoken Spanish.

UPPER DIVISION COURSES

(Open only to Junior, Senior, and Graduate Students)

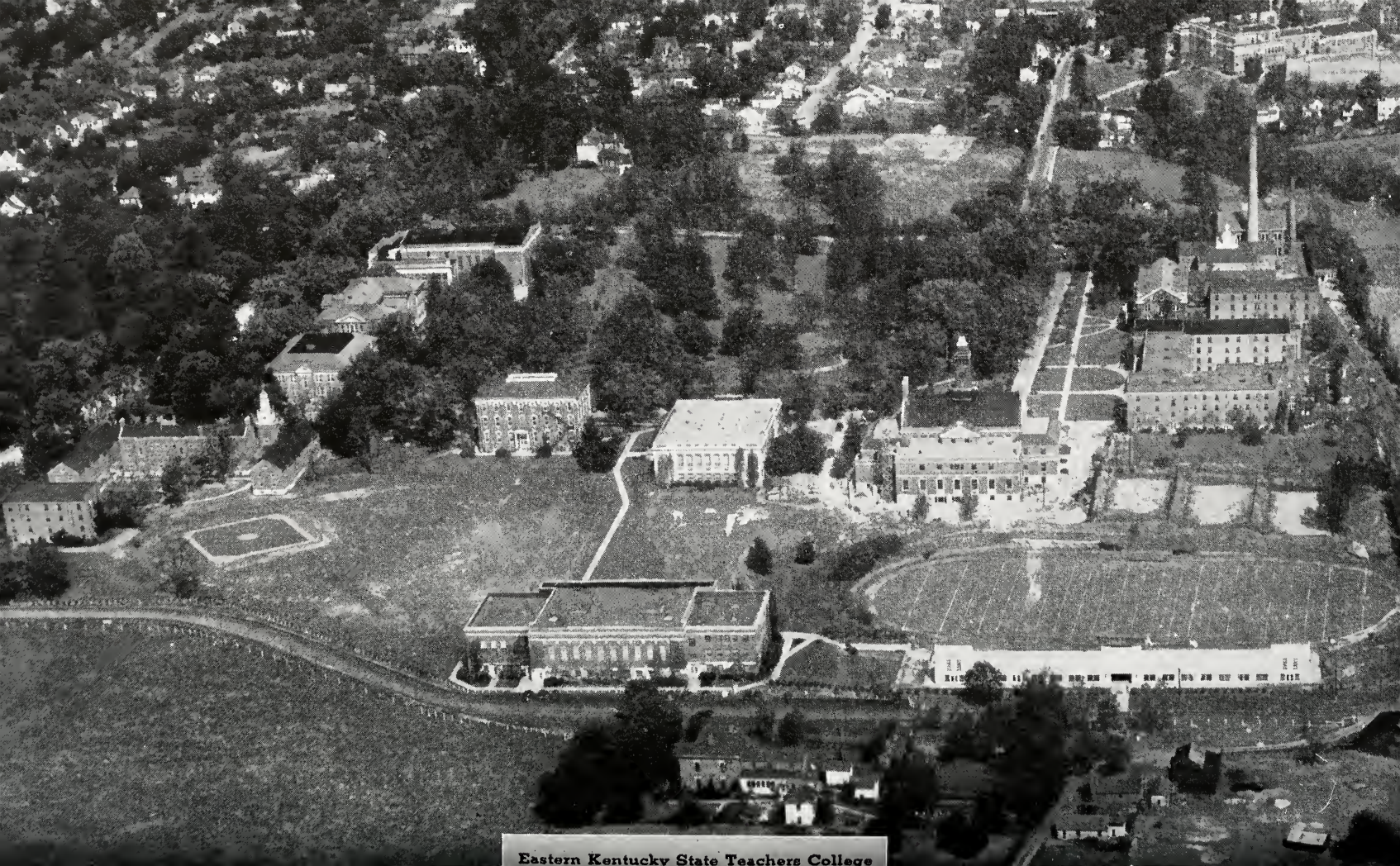
Spanish 31. The Spanish Novel. **Four hours.**
Prerequisite: Two years of college Spanish or the equivalent.
Reading of selected novels of the Golden Age and of the eighteenth century.

Spanish 32. The Spanish Novel. **Four hours.**
Prerequisite: Spanish 31 or its equivalent.
Novels of the nineteenth and twentieth centuries.

Spanish 41. Spanish poetry. **Four hours.**
Prerequisite: Two years of college Spanish or the equivalent.
Selected poems by writers throughout the world using the Spanish medium.

Spanish 42. Spanish Drama. **Four hours.**
Prerequisite: Spanish 41 or its equivalent.
Representative plays of the various schools of drama.

THE CAMPUS
IN PICTURES



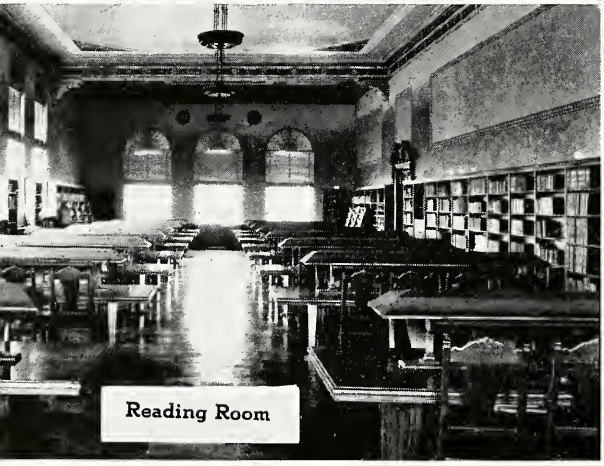
Eastern Kentucky State Teachers College

Administration Building

CAMPUS SCENES

Student Union Building

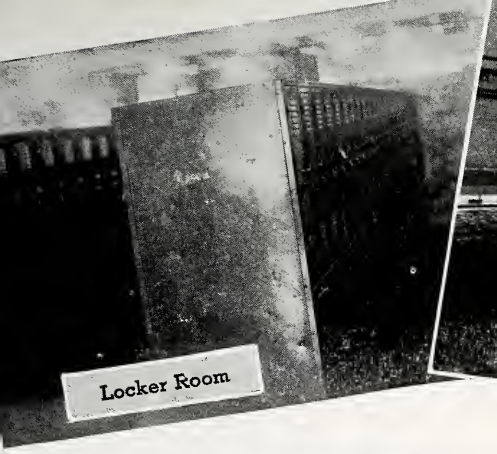
Section of the Kentucky Room

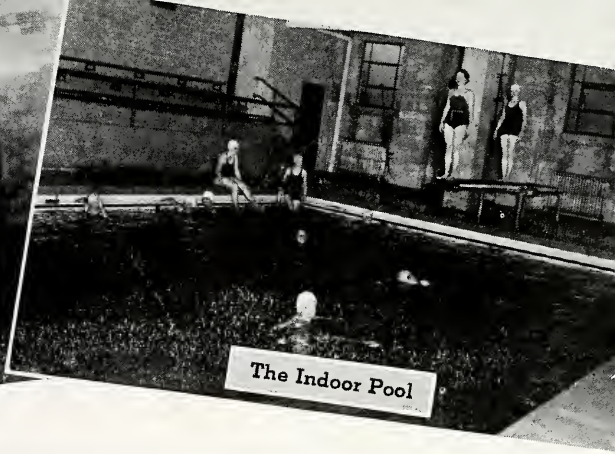


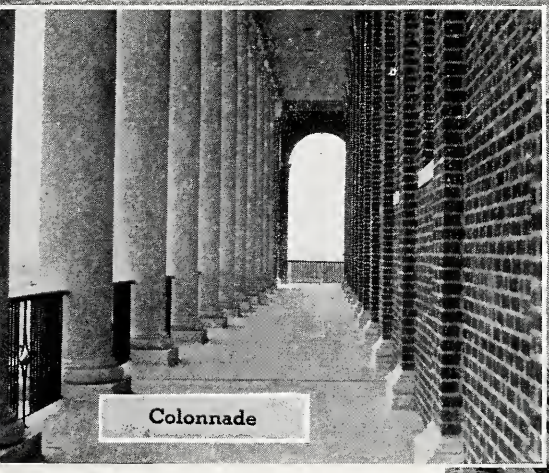
Reading Room

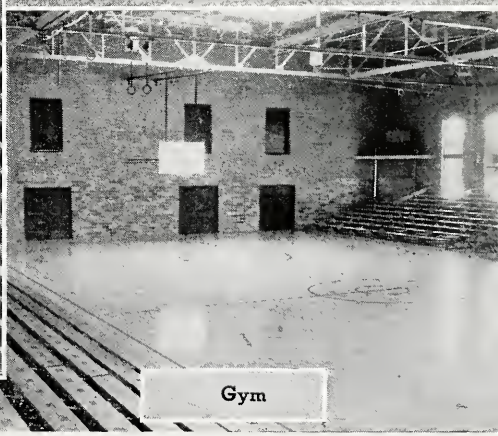
In the Stacks

CRABBE LIBRARY

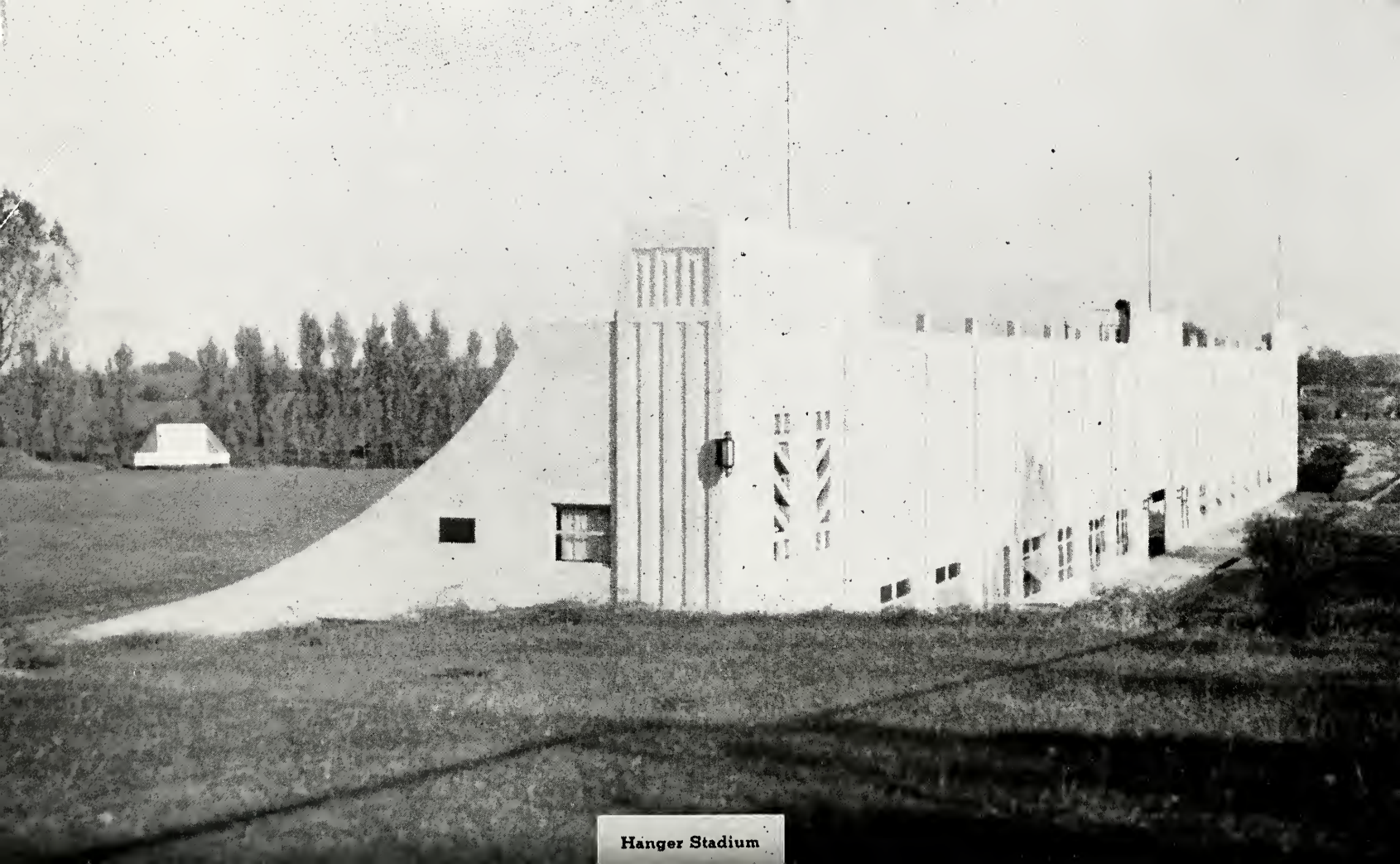

Locker Room


The Indoor Pool


Colonnade


Gym

WEAVER HEALTH BUILDING



Hanger Stadium

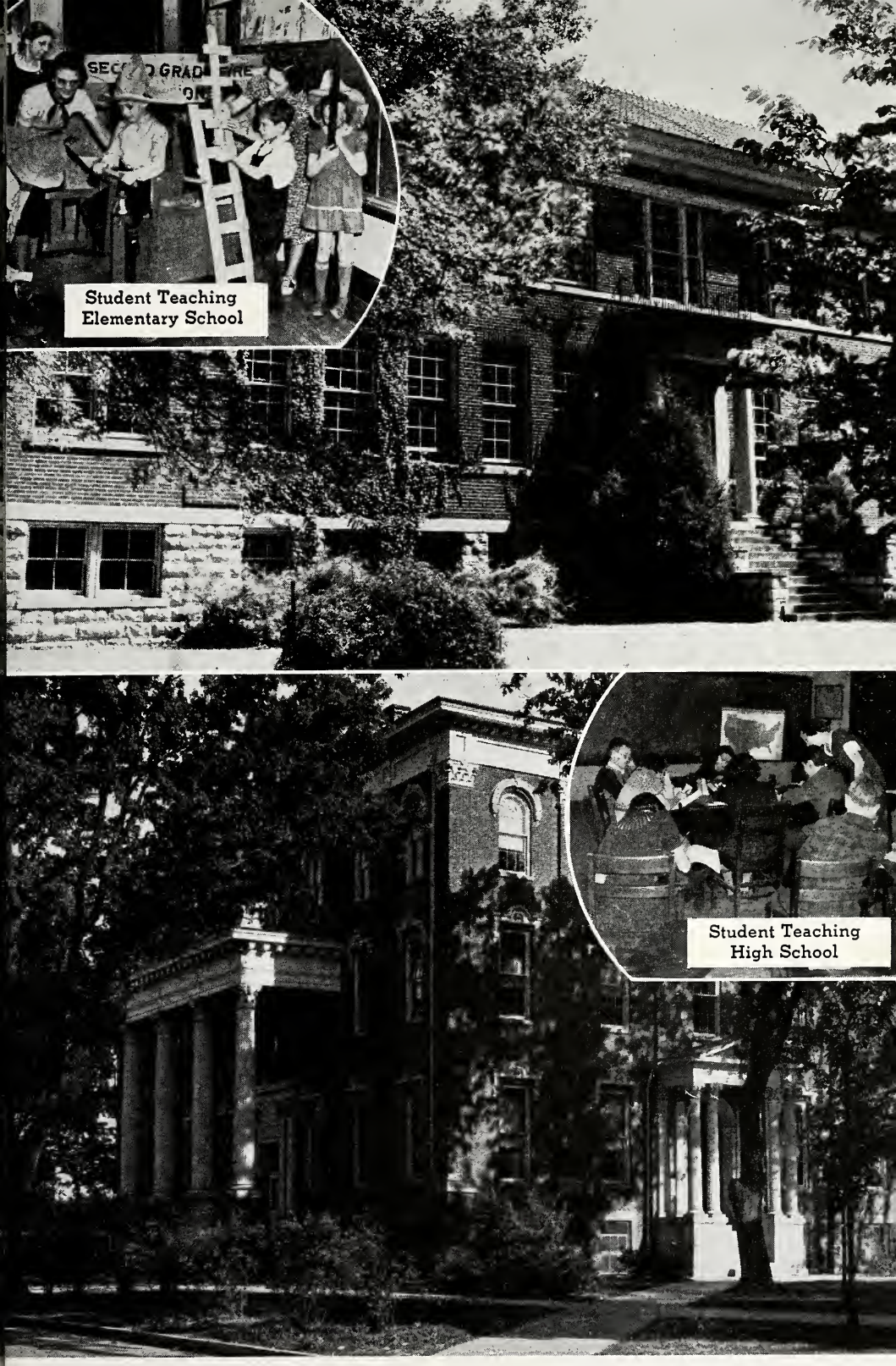
The Garden

PRESIDENT'S HOME

Sullivan Hall
(Women's Dormitory)

Burnam Hall
(Women's Dormitory)

SPRING

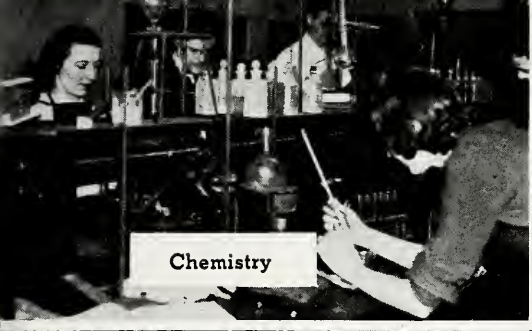


THE TRAINING SCHOOL

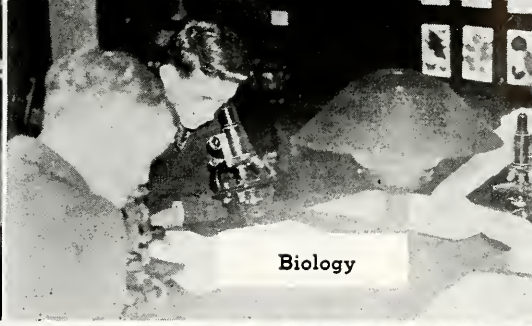
Arts Building

Amphitheater

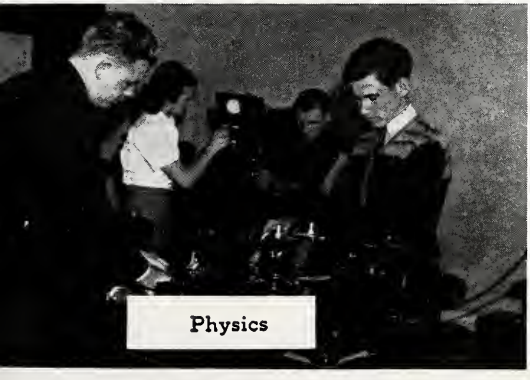
McCreary, Beckham, Miller, and Memorial Halls
(Dormitories for Men)



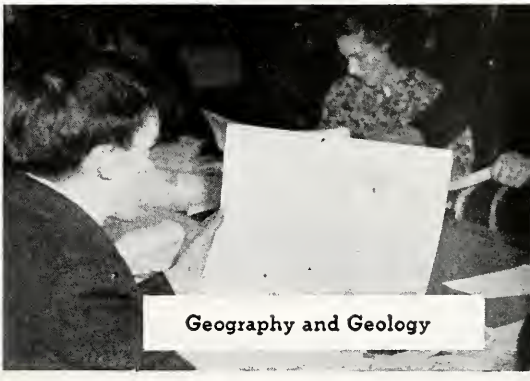
Chemistry



Biology



Physics



Geography and Geology

ROARK BUILDING

The College Owns a Stable of fine Horses Available for Student Use